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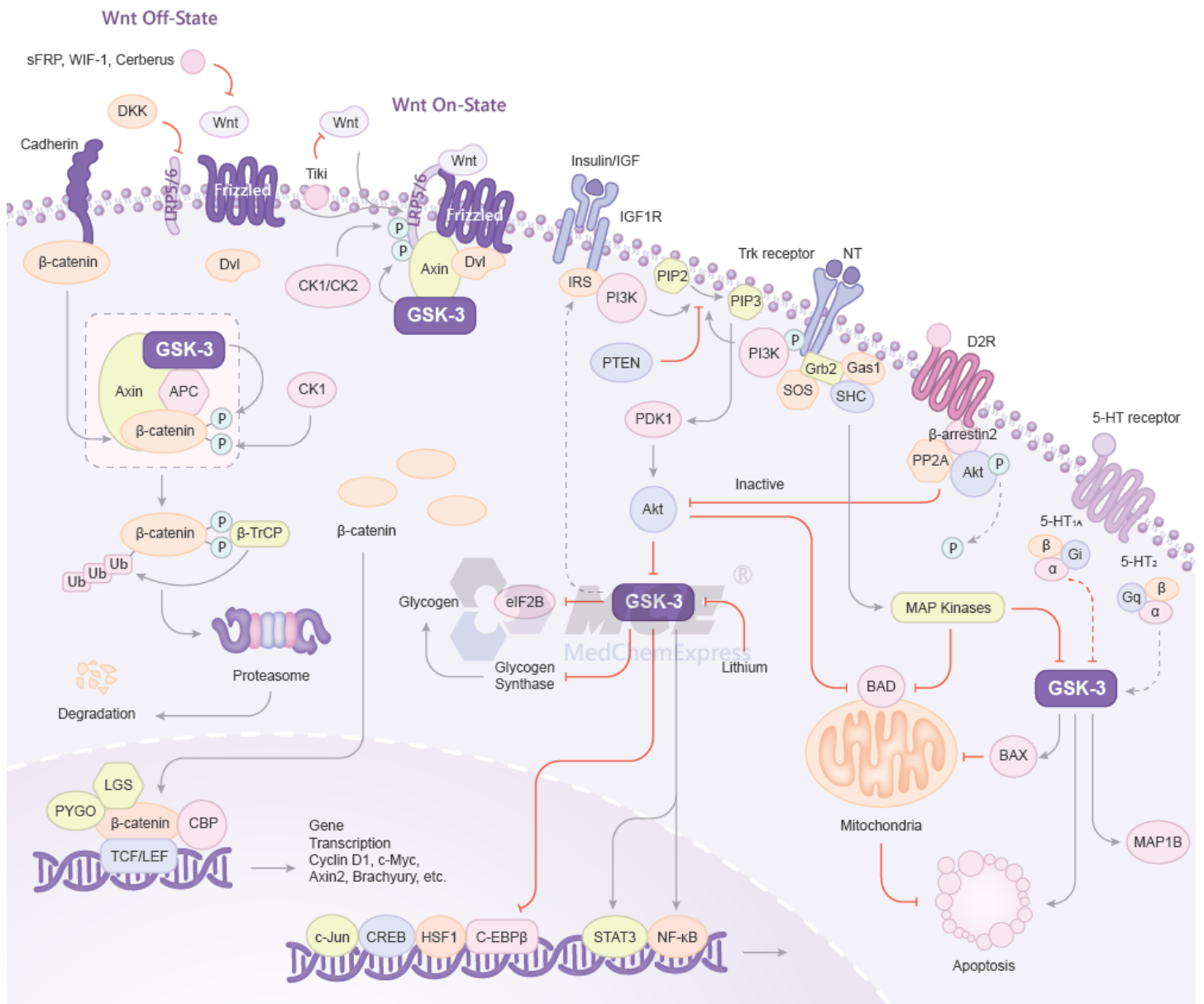
Inhibitors, Screening Libraries, Proteins

GSK-3

Glycogen synthase kinase-3; Glycogen synthase kinase 3

Glycogen synthase kinase 3 (GSK-3) is a multifunctional serine/threonine kinase consisting of two isoforms, alpha and beta. It is a highly conserved negative regulator of receptor tyrosine kinase, cytokine, and Wnt signaling pathways. Stimulation of these pathways inhibits GSK-3 to modulate diverse downstream effectors that include transcription factors, nutrient sensors, glycogen synthesis, mitochondrial function, circadian rhythm, and cell fate. GSK-3 also regulates alternative splicing in response to T-cell receptor activation, and recent phosphoproteomic studies have revealed that multiple splicing factors and regulators of RNA biosynthesis are phosphorylated in a GSK-3-dependent manner.

The malfunction or aberrant activity of GSK-3 leads to several of disorders, such as Alzheimer's disease (AD) and other neurodegenerative pathologies, and other type of diseases as diabetes, cardiovascular disorders and cancer. GSK-3 is also related to innate immune response against pathogens, which makes GSK-3 an excellent target for therapeutic intervention.



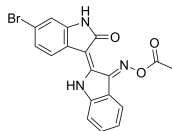
GSK-3 Inhibitors

(E/Z)-BIO-acetoxime

(GSK-3 Inhibitor X)

Cat. No.: HY-114903

(E/Z)-BIO-acetoxime (GSK-3 Inhibitor X) is a potent and selective GSK-3 α/β inhibitor, with an IC_{50} of 10 nM. (E/Z)-BIO-acetoxime shows more than 200-fold selectivity over CDK5/p25, CDK2/cyclin A and CDK1/cyclin B (IC_{50} =2.4, 4.3, 63 μ M).

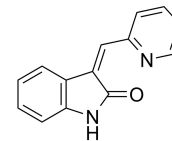


Purity: >98%
Clinical Data: No Development Reported
Size: 5 mg, 10 mg

(E/Z)-GSK-3 β inhibitor 1

Cat. No.: HY-126144A

(E/Z)-GSK-3 β inhibitor 1 is a racemic compound of (E)-GSK-3 β inhibitor 1 and (Z)-GSK-3 β inhibitor 1 isomers. GSK-3 β inhibitor 1 (compound 3a) is a glycogen synthase kinase 3 β (GSK-3 β) inhibitor and demonstrates high antidiabetic efficacy, with an IC_{50} of 4.9 nM.

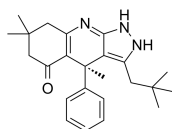


Purity: 98.56%
Clinical Data: No Development Reported
Size: 10 mM \times 1 mL, 5 mg, 10 mg, 50 mg

(R)-BRD3731

Cat. No.: HY-124607

(R)-BRD3731 is a GSK3 inhibitor extracted from patent US20160375006A1, compound example 273, has IC_{50} s of 1.05 and 6.7 μ M for GSK3 β and GSK3 α , respectively.

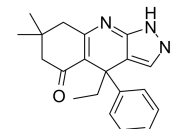


Purity: 98.22%
Clinical Data: No Development Reported
Size: 5 mg, 10 mg, 50 mg, 100 mg

(Rac)-BRD0705

Cat. No.: HY-116830A

(Rac)-BRD0705 is a less active racemate of BRD0705. BRD0705 is a potent, paralog selective and orally active GSK3 α inhibitor with an IC_{50} of 66 nM and a K_m of 4.8 μ M. BRD0705 displays increased selectivity for GSK3 α (8-fold) versus GSK3 β (IC_{50} of 515 nM).



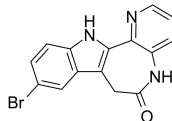
Purity: >98%
Clinical Data: No Development Reported
Size: 10 mM \times 1 mL, 5 mg, 10 mg, 50 mg, 100 mg

1-Azakenpauillone

(1-Akp)

Cat. No.: HY-59090

1-Azakenpauillone (1-Akp) is a highly selective and ATP-competitive inhibitor of glycogen synthase kinase-3 β (GSK-3 β), with an IC_{50} value of 18 nM.



Purity: 98.20%
Clinical Data: No Development Reported
Size: 10 mM \times 1 mL, 2 mg, 5 mg, 10 mg

2B-(SP)

Cat. No.: HY-P1114

2B-(SP) is a eIF2B-based substrate for glycogen synthase kinase-3 (GSK-3). 2B-(SP) is readily phosphorylated by both the α and β isoforms of GSK-3.

RRAAEELDSRAG-[Ser(PO₃H₂)]-POL

Purity: >98%
Clinical Data: No Development Reported
Size: 1 mg, 5 mg

2B-(SP) (TFA)

Cat. No.: HY-P1114A

2B-(SP) TFA is a eIF2B-based substrate for glycogen synthase kinase-3 (GSK-3). 2B-(SP) TFA is readily phosphorylated by both the α and β isoforms of GSK-3.

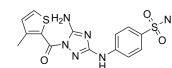
RRAAEELDSRAG-[Ser(PO₃H₂)]-POL (TFA salt)

Purity: >98%
Clinical Data: No Development Reported
Size: 1 mg, 5 mg

3-Methylthienyl-carbonyl-JNJ-7706621

Cat. No.: HY-141685

3-Methylthienyl-carbonyl-JNJ-7706621 is a potent and selective inhibitor of cyclin-dependent kinase (CDK), with IC_{50} s of 6.4 nM and 2 nM for CDK1/cyclinB and CDK2/cyclinA, respectively.

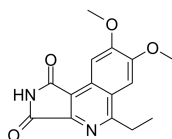


Purity: >98%
Clinical Data: No Development Reported
Size: 1 mg, 5 mg

3F8

Cat. No.: HY-107530

3F8 is a potent and selective GSK-3 β inhibitor that could be useful as new reagent and potential therapeutic candidate for GSK3 related diseases.

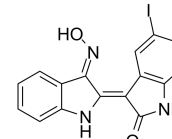


Purity: >98%
Clinical Data: No Development Reported
Size: 1 mg, 5 mg

5-Iodo-indirubin-3'-monoxime

Cat. No.: HY-111930

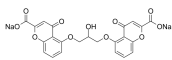
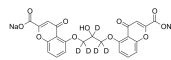
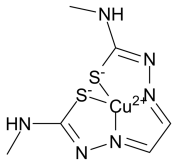
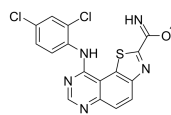
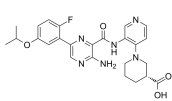
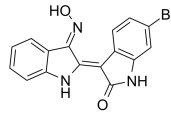
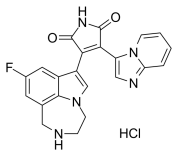
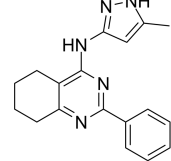
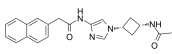
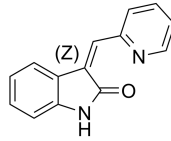
5-Iodo-indirubin-3'-monoxime is a potent GSK-3 β , CDK5/P25 and CDK1/cyclin B inhibitor, competing with ATP for binding to the catalytic site of the kinase, with IC_{50} s of 9, 20 and 25 nM, respectively.



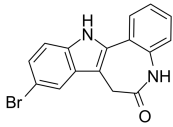
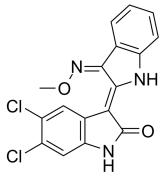
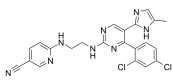
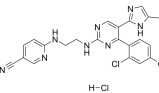
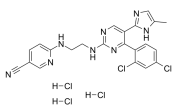
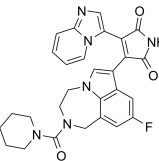
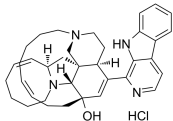
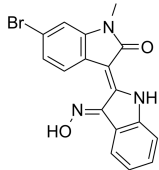
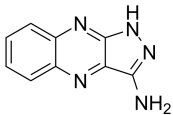
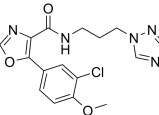
Purity: 99.50%
Clinical Data: No Development Reported
Size: 10 mM \times 1 mL, 5 mg, 10 mg, 50 mg, 100 mg

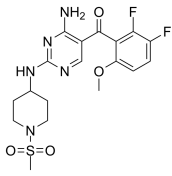
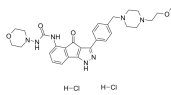
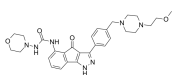
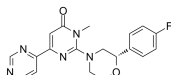
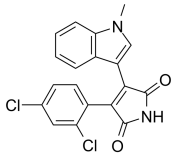
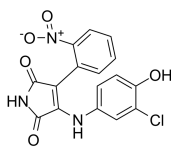
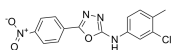
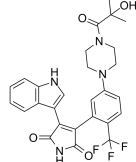
<p>7BIO (7-Bromoindirubin-3-Oxime)</p> <p>7BIO (7-Bromoindirubin-3-Oxime) is the derivate of indirubin. 7BIO (7-Bromoindirubin-3-Oxime) has inhibitory effects against cyclin-dependent kinase-5 (CDK5) and glycogen synthase kinase-3β (GSK3β).</p> <p>Purity: \geq98.0% Clinical Data: No Development Reported Size: 5 mg, 10 mg, 25 mg, 50 mg, 100 mg</p>	<p>9-ING-41</p> <p>9-ING-41 is a maleimide-based ATP-competitive and selective glycogen synthase kinase-3β (GSK-3β) inhibitor with an IC_{50} of 0.71 μM. 9-ING-41 significantly leads to cell cycle arrest, autophagy and apoptosis in cancer cells.</p> <p>Purity: 99.32% Clinical Data: Phase 2 Size: 10 mM \times 1 mL, 5 mg, 10 mg, 25 mg, 50 mg, 100 mg</p>
<p>A 1070722</p> <p>A 1070722 is a potent and selective glycogen synthase kinase 3 (GSK-3) inhibitor, with a K_i of 0.6 nM for both GSK-3α and GSK-3β.</p> <p>Purity: 99.48% Clinical Data: No Development Reported Size: 10 mM \times 1 mL, 10 mg, 50 mg</p>	<p>Aloisine A (RP107)</p> <p>Aloisine A (RP107) is a potent cyclin-dependent kinase (CDK) inhibitor with IC_{50}s of 0.15 μM, 0.12 μM, 0.4 μM, 0.16 μM for CDK1/cyclin B, CDK2/cyclin A, CDK2/cyclin E, CDK5/p35, respectively. Aloisine A inhibits GSK-3α (IC_{50}=0.5 μM) and GSK-3β (IC_{50}=1.5 μM).</p> <p>Purity: >98% Clinical Data: No Development Reported Size: 1 mg, 5 mg</p>
<p>Alsterpaullone (9-Nitropaullone; NSC 705701)</p> <p>Alsterpaullone (9-Nitropaullone) is a potent CDK inhibitor, with IC_{50}s of 35 nM, 15 nM, 200 nM and 40 nM for CDK1/cyclin B, CDK2/cyclin A, CDK2/cyclin E and CDK5/p35, respectively.</p> <p>Purity: 98.38% Clinical Data: No Development Reported Size: 5 mg, 10 mg</p>	<p>AR-A014418 (AR 0133418; GSK 3β inhibitor VIII; AR 014418)</p> <p>AR-A014418 is a potent, selective and ATP-competitive GSK3β inhibitor (IC_{50}=104 nM; K_i=38 nM).</p> <p>Purity: 99.49% Clinical Data: No Development Reported Size: 10 mM \times 1 mL, 5 mg, 10 mg, 50 mg, 100 mg</p>
<p>AR-A014418-d3 (AR 0133418-d3; GSK 3β inhibitor VIII-d3; AR 014418-d3)</p> <p>AR-A014418-d3 (AR 0133418-d3) is the deuterium labeled AR-A014418. AR-A014418 is a potent, selective, and ATP-competitive GSK3β inhibitor (IC_{50}=104 nM; K_i=38 nM).</p> <p>Purity: >98% Clinical Data: No Development Reported Size: 1 mg, 5 mg</p>	<p>ARN25068</p> <p>ARN25068 is a sub-micromolar inhibitor of the three protein kinases, GSK-3β, FYN and DYRK1A to tackle tau hyperphosphorylation.</p> <p>Purity: >98% Clinical Data: No Development Reported Size: 1 mg, 5 mg</p>
<p>AZD1080</p> <p>AZD1080 is a potent and selective GSK3 inhibitor. AZD1080 inhibits recombinant human GSK3α and GSK3β with pK_i (IC_{50}) of 8.2 (6.9 nM) and 7.5 (31 nM), respectively.</p> <p>Purity: 99.46% Clinical Data: No Development Reported Size: 10 mM \times 1 mL, 5 mg, 10 mg, 50 mg, 100 mg</p>	<p>AZD2858</p> <p>AZD2858 is a potent, orally active GSK-3 inhibitor, with IC_{50}s of 0.9 and 5 nM for GSK-3α and GSK-3β, respectively, used in the research of fracture healing.</p> <p>Purity: 99.42% Clinical Data: No Development Reported Size: 10 mM \times 1 mL, 10 mg, 50 mg</p>

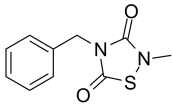
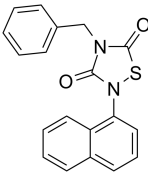
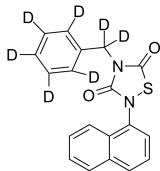
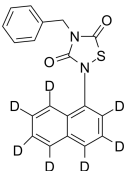
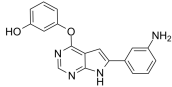
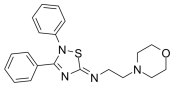
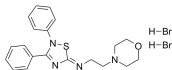
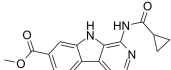
<p>Bikinin (Abrasin)</p>	<p>BIO-acetoxime (BIA)</p>
<p>Bikinin is a non-steroidal, ATP-competitive inhibitor of plant GSK-3/Shaggy-like kinases and activates BR (brassinosteroids) signaling.</p> <p>Purity: 99.94% Clinical Data: No Development Reported Size: 10 mM × 1 mL, 5 mg, 10 mg, 50 mg, 100 mg</p>	<p>BIO-acetoxime (BIA) is a potent and selective GSK-3 inhibitor, with IC_{50}s of both 10 nM for GSK-3α/β. BIO-acetoxime has anticonvulsant and anti-infection activity.</p> <p>Purity: ≥98.0% Clinical Data: No Development Reported Size: 10 mM × 1 mL, 5 mg, 10 mg, 25 mg, 50 mg, 100 mg</p>
<p>BIP-135</p>	<p>BRD0209</p>
<p>BIP-135 is a potent and selective ATP-competitive GSK-3 inhibitor, with IC_{50}s of 16 nM and 21 nM for GSK-3α and GSK-3β, respectively. BIP 135 exhibits neuroprotective effect.</p> <p>Purity: 98.31% Clinical Data: No Development Reported Size: 1 mg, 5 mg, 10 mg</p>	<p>BRD0209 is a potent, selective and dual inhibitor of GSK3α/β inhibitor (GSK3α IC_{50} = 19 nM; GSK3β IC_{50} = 5 nM). BRD0209 is also a reversible ATP-competitive inhibitor with fast-off kinetics (K_i = 4.2 nM, respectively).</p> <p>Purity: >98% Clinical Data: No Development Reported Size: 1 mg, 5 mg</p>
<p>BRD0705</p>	<p>BRD3731</p>
<p>BRD0705 is a potent, paralog selective and orally active GSK3α inhibitor with an IC_{50} of 66 nM and a K_d of 4.8 μM. BRD0705 displays increased selectivity for GSK3α (8-fold) versus GSK3β (IC_{50} of 515 nM). BRD0705 can be used for acute myeloid leukemia (AML) research.</p> <p>Purity: 98.41% Clinical Data: No Development Reported Size: 5 mg, 10 mg, 50 mg, 100 mg</p>	<p>BRD3731 is a selective GSK3β inhibitor, with IC_{50}s of 15 nM and 215 nM for GSK3β and GSK3α, respectively. BRD3731 is potential for the research of post-traumatic stress disorder (PTSD), psychiatric disorder, diabetes, and neurodegenerative disorders.</p> <p>Purity: 98.02% Clinical Data: No Development Reported Size: 10 mM × 1 mL, 5 mg, 10 mg, 50 mg, 100 mg</p>
<p>BRD5648 ((R)-BRD0705)</p>	<p>CHIR-98014</p>
<p>BRD5648 ((R)-BRD0705) is a negative control of BRD0705. BRD0705 is a potent, paralog selective and orally active GSK3α inhibitor with an IC_{50} of 66 nM and a K_d of 4.8 μM. BRD0705 displays increased selectivity for GSK3α (8-fold) versus GSK3β (IC_{50} of 515 nM).</p> <p>Purity: 97.07% Clinical Data: No Development Reported Size: 5 mg, 10 mg, 50 mg, 100 mg</p>	<p>CHIR-98014 is a potent, cell-permeable GSK-3 inhibitor with IC_{50}s of 0.65 and 0.58 nM for GSK-3α and GSK-3β, respectively; it shows less potent activities against cdc2 and erk2.</p> <p>Purity: ≥98.0% Clinical Data: No Development Reported Size: 10 mM × 1 mL, 5 mg, 10 mg, 50 mg</p>
<p>CHIR-98023</p>	<p>CP21R7 (CP21)</p>
<p>CHIR-98023 is a potent, selective and reversible inhibitor of GSK3, with IC_{50}s of 10 nM and 6.7 nM for GSK3α and GSK3β, respectively. CHIR-98023 can improve insulin action and glucose metabolism.</p> <p>Purity: >98% Clinical Data: No Development Reported Size: 5 mg, 10 mg, 50 mg, 100 mg</p>	<p>CP21R7 is potent GSK-3β inhibitor, with an IC_{50} of 1.8 nM; CP21R7 also shows inhibitory activity against PKCα, with an IC_{50} of 1900 nM.</p> <p>Purity: 99.51% Clinical Data: No Development Reported Size: 10 mM × 1 mL, 1 mg, 5 mg, 10 mg, 25 mg, 50 mg, 100 mg</p>

<p>Cromolyn sodium (Disodium Cromoglycate; FPL-670)</p> <p style="text-align: right;">Cat. No.: HY-B0320A</p>	<p>Cromolyn-d5 sodium (Disodium Cromoglycate-d5; FPL-670-d5)</p> <p style="text-align: right;">Cat. No.: HY-B0320AS</p>
<p>Cromolyn sodium (Disodium Cromoglycate; FPL-670) is an antiallergic drug. Cromolyn sodium is a GSK-3β inhibitor with an IC_{50} of 2.0 μM.</p>  <p>Purity: 99.10% Clinical Data: Launched Size: 10 mM \times 1 mL, 500 mg, 1 g, 5 g</p>	<p>Cromolyn-d5 sodium (Disodium Cromoglycate-d5) is the deuterium labeled Cromolyn sodium. Cromolyn sodium (Disodium Cromoglycate; FPL-670) is an antiallergic drug. Cromolyn sodium is a GSK-3β inhibitor with an IC_{50} of 2.0 μM.</p>  <p>Purity: >98% Clinical Data: No Development Reported Size: 1 mg, 5 mg</p>
<p>Cu(II)GTSM</p> <p style="text-align: right;">Cat. No.: HY-139324</p>	<p>EHT 5372</p> <p style="text-align: right;">Cat. No.: HY-111379</p>
<p>Cu(II)GTSM, a cell-permeable Cu-complex, significantly inhibits GSK3β. Cu(II)GTSM inhibits Amyloid-β oligomers (AβOs) and decreases tau phosphorylation. Cu(II)GTSM also decreases the abundance of Amyloid-β trimers. Cu(II)GTSM is a potential anticancer and antimicrobial agent.</p>  <p>Purity: >98% Clinical Data: No Development Reported Size: 1 mg, 5 mg</p>	<p>EHT 5372 is a highly potent and selective inhibitor of DYRK's family kinases with IC_{50}s of 0.22, 0.28, 10.8, 93.2, 22.8, 88.8, 59.0, 7.44, 221 nM for DYRK1A, DYRK1B, DYRK2, DYRK3, CLK1, CLK2, CLK4, GSK-3α, GSK-3β.</p>  <p>Purity: >98% Clinical Data: No Development Reported Size: 5 mg, 10 mg, 25 mg, 50 mg, 100 mg</p>
<p>GNF4877</p> <p style="text-align: right;">Cat. No.: HY-129492</p>	<p>GSK 3 Inhibitor IX (6-Bromoindirubin-3'-oxime; BIO; MLS 2052)</p> <p style="text-align: right;">Cat. No.: HY-10580</p>
<p>GNF4877 is a potent DYRK1A and GSK3β inhibitor with IC_{50}s of 6nM and 16nM, respectively, which leads to blockade of nuclear factor of activated T-cells (NFATc) nuclear export and increased β-cell proliferation (EC_{50} of 0.66μM for mouse β (R7T1) cells).</p>  <p>Purity: 98.85% Clinical Data: No Development Reported Size: 5 mg, 10 mg, 25 mg, 50 mg</p>	<p>GSK 3 Inhibitor IX (6-Bromoindirubin-3'-oxime; BIO) is a potent, selective, reversible and ATP-competitive inhibitor of GSK-3α/β and CDK1-cyclinB complex with IC_{50}s of 5 nM/320 nM/80 nM for (GSK-3α/β)/CDK1/CDK5, respectively.</p>  <p>Purity: 99.74% Clinical Data: Phase 4 Size: 10 mM \times 1 mL, 5 mg, 10 mg, 50 mg</p>
<p>GSK-3 inhibitor 1</p> <p style="text-align: right;">Cat. No.: HY-13973A</p>	<p>GSK-3 Inhibitor XIII</p> <p style="text-align: right;">Cat. No.: HY-112392</p>
<p>GSK-3 inhibitor 1 is an inhibitor of GSK-3.</p>  <p>Purity: 99.89% Clinical Data: No Development Reported Size: 10 mM \times 1 mL, 5 mg, 10 mg, 50 mg, 100 mg</p>	<p>GSK-3 Inhibitor XIII is a potent and ATP-competitive GSK-3 inhibitor with a K_i of 24 nM.</p>  <p>Purity: >98% Clinical Data: No Development Reported Size: 5 mg, 10 mg, 25 mg</p>
<p>GSK-3/CDK5/CDK2-IN-1</p> <p style="text-align: right;">Cat. No.: HY-134622</p>	<p>GSK-3β inhibitor 1</p> <p style="text-align: right;">Cat. No.: HY-126144</p>
<p>GSK-3/CDK5/CDK2-IN-1, an imidazole derivative, is an inhibitor of cdk5, cdk2, and GSK-3 extracted from patent WO2002010141A1, example 9a. GSK-3/CDK5/CDK2-IN-1 can be used for the research of cancer, and neurodegenerative diseases.</p>  <p>Purity: 98.56% Clinical Data: No Development Reported Size: 10 mM \times 1 mL, 5 mg, 10 mg, 25 mg, 50 mg, 100 mg</p>	<p>GSK-3β inhibitor 1 (compound 3a) is a glycogen synthase kinase 3β (GSK-3β) inhibitor and demonstrates high antidiabetic efficacy, with an IC_{50} of 4.9 nM.</p>  <p>Purity: 98.07% Clinical Data: No Development Reported Size: 10 mM \times 1 mL, 5 mg, 10 mg, 50 mg</p>

<p>GSK-3β inhibitor 2</p> <p>Cat. No.: HY-130795</p>	<p>GSK-3β inhibitor 3</p> <p>Cat. No.: HY-141480</p>
<p>GSK-3β inhibitor 2 (Compound 3) is a potent, selective and orally active GSK-3β inhibitor with an IC_{50} of 1.1 nM. GSK-3β inhibitor 2 can cross the blood-brain barrier. GSK-3β inhibitor 2 has the potential for Alzheimer's disease.</p> <p>Purity: 98.82%</p> <p>Clinical Data: No Development Reported</p> <p>Size: 10 mM × 1 mL, 5 mg, 10 mg, 50 mg, 100 mg</p>	<p>GSK-3β inhibitor 3 is a potent, selective, irreversible and covalent inhibitor of Glycogen Synthase Kinase 3β (GSK-3β), with an IC_{50} of 6.6 μM. GSK-3β inhibitor 3 can be used for the research of acute promyelocytic leukemia.</p> <p>Purity: 98.20%</p> <p>Clinical Data: No Development Reported</p> <p>Size: 10 mM × 1 mL, 5 mg, 10 mg, 25 mg, 50 mg, 100 mg</p>
<p>GSK3 Substrate, α, β subunit</p> <p>Cat. No.: HY-P2558</p>	<p>hSMG-1 inhibitor 11j</p> <p>Cat. No.: HY-124719</p>
<p>GSK3 Substrate, α, β subunit is peptide substrate for glycogen synthase kinase-3 (GSK-3) and can be used to measure GSK-3 activity.</p> <p>RAAVPPSPSLSRHSSPHQSEDEEE</p> <p>Purity: >98%</p> <p>Clinical Data: No Development Reported</p> <p>Size: 1 mg, 5 mg</p>	<p>hSMG-1 inhibitor 11j, a pyrimidine derivative, is a potent and selective inhibitor of hSMG-1, with an IC_{50} of 0.11 nM. hSMG-1 inhibitor 11j exhibits >455-fold selectivity for hSMG-1 over mTOR (IC_{50}=50 nM), PI3Kα/γ (IC_{50}=92/60 nM) and CDK1/CDK2 (IC_{50}=32/7.1 μM).</p> <p>Purity: 99.81%</p> <p>Clinical Data: No Development Reported</p> <p>Size: 5 mg, 10 mg</p>
<p>IM-12</p> <p>Cat. No.: HY-12292</p>	<p>Indirubin-3'-monoxime</p> <p>(Indirubin-3'-oxime)</p> <p>Cat. No.: HY-19807</p>
<p>IM-12 is an inhibitor of GSK-3β, with an IC_{50} of 53 nM, and also enhances Wnt signalling.</p> <p>Purity: 98.30%</p> <p>Clinical Data: No Development Reported</p> <p>Size: 10 mM × 1 mL, 10 mg, 50 mg, 100 mg</p>	<p>Indirubin-3'-monoxime is a potent GSK-3β inhibitor, and weakly inhibits 5-Lipoxygenase, with IC_{50}s of 22 nM and 7.8-10 μM, respectively; Indirubin-3'-monoxime also shows inhibitory activities against CDK5/p25 and CDK1/cyclin B, with IC_{50}s of 100 and 180 nM.</p> <p>Purity: 99.89%</p> <p>Clinical Data: No Development Reported</p> <p>Size: 10 mM × 1 mL, 5 mg, 10 mg, 50 mg</p>
<p>Indirubin-3'-monoxime-5-sulphonic acid</p> <p>Cat. No.: HY-111931</p>	<p>Indirubin-3'-oxime</p> <p>(IDR3O; I3O)</p> <p>Cat. No.: HY-139254</p>
<p>Indirubin-3'-monoxime-5-sulphonic acid is a potent and selective inhibitor of CDK1, CDK5, and GSK-3β with IC_{50}s of 5 nM, 7 nM, and 80 nM, respectively.</p> <p>Purity: >98%</p> <p>Clinical Data: No Development Reported</p> <p>Size: 1 mg</p>	<p>Indirubin-3'-oxime (IDR3O), a synthetic derivative of indirubin, is a potent inhibitor of cyclin-dependent kinases (CDKs) and glycogen synthase kinase 3β (GSK3β).</p> <p>Purity: 99.49%</p> <p>Clinical Data: No Development Reported</p> <p>Size: 1 mg, 5 mg, 10 mg, 25 mg, 50 mg, 100 mg</p>
<p>Indirubin-5-sulfonate</p> <p>Cat. No.: HY-111932</p>	<p>K00546</p> <p>Cat. No.: HY-103647</p>
<p>Indirubin-5-sulfonate is a cyclin-dependent kinase (CDK) inhibitor, with IC_{50} values of 55 nM, 35 nM, 150 nM, 300 nM and 65 nM for CDK1/cyclin B, CDK2/cyclin A, CDK2/cyclin E, CDK4/cyclin D1, and CDK5/p35, respectively. Indirubin-5-sulfonate also shows inhibitory activity against GSK-3β.</p> <p>Purity: >98%</p> <p>Clinical Data: No Development Reported</p> <p>Size: 1 mg, 5 mg</p>	<p>K00546 is a potent CDK1 and CDK2 inhibitor with IC_{50}s of 0.6 nM and 0.5 nM for CDK1/cyclin B and CDK2/cyclin A, respectively. K00546 is also a potent CDC2-like kinase 1 (CLK1) and CLK3 inhibitor with IC_{50}s of 8.9 nM and 29.2 nM, respectively.</p> <p>Purity: 98.78%</p> <p>Clinical Data: No Development Reported</p> <p>Size: 10 mM × 1 mL, 5 mg, 10 mg, 50 mg, 100 mg</p>

<p>Kenpauillone (9-Bromopauillone; NSC-664704) Cat. No.: HY-12302</p> <p>Kenpauillone is a potent inhibitor of CDK1/cyclin B and GSK-3β, with IC₅₀s of 0.4 μM and 23 nM, and also inhibits CDK2/cyclin A, CDK2/cyclin E, and CDK5/p25 with IC₅₀s of 0.68 μM, 7.5 μM, 0.85 μM, respectively.</p> <p>Purity: 98.01% Clinical Data: No Development Reported Size: 10 mM \times 1 mL, 5 mg, 10 mg, 50 mg</p> 	<p>KY19382 (A3051) Cat. No.: HY-131447</p> <p>KY19382 is a potent and orally active dual inhibitor of CXXC5-DVL and GSK3β, with IC₅₀s of 19 and 10 nM, respectively. KY19382 activates Wnt/β-catenin signaling through inhibitory effects on both CXXC5-DVL interaction and GSK3β activity.</p> <p>Purity: 98.04% Clinical Data: No Development Reported Size: 5 mg, 10 mg, 25 mg, 50 mg, 100 mg</p> 
<p>Laduviglusib (CHIR-99021; CT99021) Cat. No.: HY-10182</p> <p>Laduviglusib (CHIR-99021) is a potent and selective GSK-3α/β inhibitor with IC₅₀s of 10 nM and 6.7 nM. Laduviglusib shows >500-fold selectivity for GSK-3 over CDC2, ERK2 and other protein kinases.</p> <p>Purity: 99.76% Clinical Data: No Development Reported Size: 10 mM \times 1 mL, 5 mg, 10 mg, 50 mg, 100 mg</p> 	<p>Laduviglusib monohydrochloride (CHIR-99021 monohydrochloride; CT99021 monohydrochloride) Cat. No.: HY-10182A</p> <p>Laduviglusib (CHIR-99021) monohydrochloride is a potent and selective GSK-3α/β inhibitor with IC₅₀s of 10 nM and 6.7 nM. Laduviglusib monohydrochloride shows >500-fold selectivity for GSK-3 over CDC2, ERK2 and other protein kinases.</p> <p>Purity: 99.93% Clinical Data: No Development Reported Size: 10 mM \times 1 mL, 5 mg, 10 mg, 50 mg, 100 mg</p> 
<p>Laduviglusib trihydrochloride (CHIR-99021 trihydrochloride; CT99021 trihydrochloride) Cat. No.: HY-10182B</p> <p>Laduviglusib (CHIR-99021) trihydrochloride is a potent and selective GSK-3α/β inhibitor with IC₅₀s of 10 nM and 6.7 nM. Laduviglusib trihydrochloride shows >500-fold selectivity for GSK-3 over CDC2, ERK2 and other protein kinases.</p> <p>Purity: 98.68% Clinical Data: No Development Reported Size: 10 mM \times 1 mL, 5 mg, 10 mg, 50 mg</p> 	<p>LY2090314 Cat. No.: HY-16294</p> <p>LY2090314 is a potent inhibitor of glycogen synthase kinase-3 (GSK-3) with IC₅₀ values of 1.5 nM and 0.9 nM for GSK-3α and GSK-3β, respectively.</p> <p>Purity: 99.72% Clinical Data: Phase 2 Size: 10 mM \times 1 mL, 5 mg, 10 mg, 50 mg, 100 mg</p> 
<p>Manzamine A hydrochloride Cat. No.: HY-117025A</p> <p>Manzamine A hydrochloride, an orally active beta-carboline alkaloid, inhibits specifically GSK-3β and CDK-5 with IC₅₀s of 10.2 μM and 1.5 μM, respectively. Manzamine A hydrochloride targets vacuolar ATPases and inhibits autophagy in pancreatic cancer cells.</p> <p>Purity: 99.29% Clinical Data: No Development Reported Size: 1 mg, 5 mg</p> 	<p>MeBIO Cat. No.: HY-103221</p> <p>MeBIO is a potent AhR (aryl hydrocarbon receptor) agonist, with IC₅₀ of 44 μM (GSK-3) and 55 μM (CDK1/cyclin B), respectively. MeBIO is inactive on GSK-3β.</p> <p>Purity: >98% Clinical Data: No Development Reported Size: 1 mg, 5 mg</p> 
<p>NSC693868 Cat. No.: HY-103381</p> <p>NSC693868 is a selective inhibitor of CDK1 and CDK5 with IC₅₀s of 600 nM and 400 nM, respectively. NSC693868 less potently inhibits GSK3β with an IC₅₀ of 1 μM and does not block CDC25 activity.</p> <p>Purity: >98% Clinical Data: No Development Reported Size: 1 mg, 5 mg</p> 	<p>PF-04802367 (PF-367) Cat. No.: HY-122026</p> <p>PF-04802367 (PF-367) is a highly selective GSK-3 inhibitor with an IC₅₀ of 2.1 nM based on a recombinant human GSK-3β enzyme assay and 1.1 nM based on ADP-Glo assay. PF-04802367 shows desirable central nervous system (CNS) properties and potency.</p> <p>Purity: 98.84% Clinical Data: No Development Reported Size: 5 mg, 10 mg, 25 mg, 50 mg, 100 mg</p> 

<p>Phospho-Glycogen Synthase Peptide-2(substrate)</p> <p>Cat. No.: HY-P1113</p>	<p>Phospho-Glycogen Synthase Peptide-2(substrate) TFA</p> <p>Cat. No.: HY-P1113A</p>
<p>Phospho-Glycogen Synthase Peptide-2 (substrate) is peptide substrate for glycogen synthase kinase-3 (GSK-3) and can be used for affinity purification of protein-serine kinases.</p> <p>YRRAVPPSPSLSRHSPPHQ (Ser(PO₃H)₂)₃EEDEE</p> <p>Purity: >98%</p> <p>Clinical Data: No Development Reported</p> <p>Size: 1 mg, 5 mg</p>	<p>Phospho-Glycogen Synthase Peptide-2 (substrate) is peptide substrate for glycogen synthase kinase-3 (GSK-3) and can be used for affinity purification of protein-serine kinases.</p> <p>YRRAVPPSPSLSRHSPPHQ (Ser(PO₃H)₂)₃EEDEE (TFA salt)</p> <p>Purity: >98%</p> <p>Clinical Data: No Development Reported</p> <p>Size: 1 mg, 5 mg</p>
<p>R547</p> <p>Cat. No.: HY-10014</p>	<p>RGB-286638</p> <p>Cat. No.: HY-15504</p>
<p>R547 is a potent, selective and orally active ATP-competitive CDK inhibitor, with K_s of 2 nM, 3 nM and 1 nM for CDK1/cyclin B, CDK2/cyclin E and CDK4/cyclin D1, respectively.</p>  <p>Purity: 99.66%</p> <p>Clinical Data: No Development Reported</p> <p>Size: 10 mM × 1 mL, 10 mg, 50 mg</p>	<p>RGB-286638 is a CDK inhibitor that inhibits the kinase activity of cyclin T1-CDK9, cyclin B1-CDK1, cyclin E-CDK2, cyclin D1-CDK4, cyclin E-CDK3, and p35-CDK5 with IC₅₀s of 1, 2, 3, 4, 5 and 5 nM, respectively; also inhibits GSK-3β, TAK1, Jak2 and MEK1, with IC₅₀s of 3, 5, 50, and 54 nM.</p>  <p>Purity: 99.84%</p> <p>Clinical Data: Phase 1</p> <p>Size: 10 mM × 1 mL, 5 mg, 10 mg, 50 mg, 100 mg</p>
<p>RGB-286638 free base</p> <p>Cat. No.: HY-15504A</p>	<p>SAR502250</p> <p>Cat. No.: HY-137472</p>
<p>RGB-286638 is a CDK inhibitor that inhibits the kinase activity of cyclin T1-CDK9, cyclin B1-CDK1, cyclin E-CDK2, cyclin D1-CDK4, cyclin E-CDK3, and p35-CDK5 with IC₅₀s of 1, 2, 3, 4, 5 and 5 nM, respectively; also inhibits GSK-3β, TAK1, Jak2 and MEK1, with IC₅₀s of 3, 5, 50, and 54 nM.</p>  <p>Purity: 98.07%</p> <p>Clinical Data: Phase 1</p> <p>Size: 5 mg, 10 mg, 50 mg, 100 mg</p>	<p>SAR502250 is a potent, selective, ATP competitive, orally active and brain-penetrant inhibitor of GSK3, with an IC₅₀ of 12 nM for human GSK-3β. SAR502250 displays antidepressant-like activity. SAR502250 can be used for the research of Alzheimer's disease (AD).</p>  <p>Purity: 99.90%</p> <p>Clinical Data: No Development Reported</p> <p>Size: 5 mg, 10 mg, 25 mg, 50 mg, 100 mg</p>
<p>SB 216763</p> <p>Cat. No.: HY-12012</p>	<p>SB 415286</p> <p>Cat. No.: HY-15438</p>
<p>SB 216763 is potent, selective and ATP-competitive GSK-3 inhibitor with IC₅₀s of 34.3 nM for both GSK-3α and GSK-3β.</p>  <p>Purity: 99.30%</p> <p>Clinical Data: No Development Reported</p> <p>Size: 10 mM × 1 mL, 5 mg, 10 mg, 50 mg, 100 mg</p>	<p>SB 415286 is a potent and selective cell permeable inhibitor of GSK-3α, with an IC₅₀ of 77.5 nM, and a K_i of 30.75 nM; SB 415286 is equally effective at inhibiting human GSK-3α and GSK-3β.</p>  <p>Purity: 99.72%</p> <p>Clinical Data: No Development Reported</p> <p>Size: 10 mM × 1 mL, 10 mg, 50 mg</p>
<p>TC-G 24</p> <p>Cat. No.: HY-107529</p>	<p>TCS 21311</p> <p>(NIBR3049) Cat. No.: HY-108264</p>
<p>TC-G 24 (Compound 24) is a potent, selective glycogen synthase kinase-3β (GSK-3β) inhibitor with an IC₅₀ of 17.1 nM. TC-G 24 can cross the BBB and can be used for studying many diseases such as type 2 diabetes mellitus, stroke, Alzheimer, and other related diseases.</p>  <p>Purity: >98%</p> <p>Clinical Data: No Development Reported</p> <p>Size: 1 mg, 5 mg</p>	<p>TCS 21311 (NIBR3049) is a potent, highly selective JAK3 inhibitor with an IC₅₀ of 8 nM, it displays >100-fold selectivity over JAK1, JAK2 and TYK2. TCS 21311 (NIBR3049) inhibits PKCα, PKCθ, and GSK3β with IC₅₀s of 13, 68, and 3 nM, respectively.</p>  <p>Purity: ≥98.0%</p> <p>Clinical Data: No Development Reported</p> <p>Size: 10 mM × 1 mL, 1 mg, 5 mg, 10 mg</p>

<p>TDZD-8 (GSK-3β Inhibitor I; NP 01139)</p> <p>TDZD-8 is an inhibitor of GSK-3β, with an IC₅₀ of 2 μM; TDZD-8 shows less potent activities against Cdk-1/cyclinB, CK-II, PKA, and PKC, with all IC₅₀s of >100 μM.</p> <p>Purity: 99.76% Clinical Data: No Development Reported Size: 10 mM \times 1 mL, 5 mg, 10 mg, 25 mg, 50 mg, 100 mg</p> <p>Cat. No.: HY-11012</p> 	<p>Tideglusib (NP031112)</p> <p>Tideglusib (NP031112) is an irreversible GSK-3 inhibitor with IC₅₀s of 5 nM and 60 nM for GSK-3β^{WT} (1 h preincubation) and GSK-3β^{C199A} (1 h preincubation), respectively.</p> <p>Purity: 99.66% Clinical Data: Phase 3 Size: 10 mM \times 1 mL, 10 mg, 50 mg, 100 mg</p> <p>Cat. No.: HY-14872</p> 
<p>Tideglusib-d7 (NP031112-d7)</p> <p>Tideglusib-d7 (NP031112-d7) is the deuterium labeled Tideglusib. Tideglusib (NP031112) is an irreversible GSK-3 inhibitor with IC₅₀s of 5 nM and 60 nM for GSK-3β^{WT} (1 h preincubation) and GSK-3β^{C199A} (1 h preincubation), respectively.</p> <p>Purity: >98% Clinical Data: No Development Reported Size: 1 mg, 5 mg</p> <p>Cat. No.: HY-14872S</p> 	<p>Tideglusib-d7-1 (NP031112-d7)</p> <p>Tideglusib-d7-1 (NP031112-d7) is the deuterium labeled Tideglusib. Tideglusib (NP031112) is an irreversible GSK-3 inhibitor with IC₅₀s of 5 nM and 60 nM for GSK-3β^{WT} (1 h preincubation) and GSK-3β^{C199A} (1 h preincubation), respectively.</p> <p>Purity: >98% Clinical Data: No Development Reported Size: 1 mg, 5 mg</p> <p>Cat. No.: HY-14872S1</p> 
<p>TWS119</p> <p>TWS119 is a specific inhibitor of GSK-3β, with an IC₅₀ of 30 nM, and activates the wnt/β-catenin pathway.</p> <p>Purity: \geq98.0% Clinical Data: No Development Reported Size: 10 mM \times 1 mL, 10 mg, 50 mg, 100 mg</p> <p>Cat. No.: HY-10590</p> 	<p>VP3.15</p> <p>VP3.15 is a potent, orally bioavailable and CNS-penetrant dual phosphodiesterase (PDE)7-glycogen synthase kinase (GSK)3 inhibitor, with IC₅₀s of 1.59 μM and 0.88 μM for PDE7 and GSK-3, respectively.</p> <p>Purity: >98% Clinical Data: No Development Reported Size: 1 mg, 5 mg</p> <p>Cat. No.: HY-128879</p> 
<p>VP3.15 dihydrobromide</p> <p>VP3.15 dihydrobromide is a potent, orally bioavailable and CNS-penetrant dual phosphodiesterase (PDE)7-glycogen synthase kinase (GSK)3 inhibitor, with IC₅₀s of 1.59 μM and 0.88 μM for PDE7 and GSK-3, respectively.</p> <p>Purity: 98.22% Clinical Data: No Development Reported Size: 10 mM \times 1 mL, 5 mg, 10 mg, 25 mg, 50 mg, 100 mg</p> <p>Cat. No.: HY-128879A</p> 	<p>ZDWX-25</p> <p>ZDWX-25 is a highly potent GSK-3β and DYRK1A dual inhibitor with an IC₅₀ value of 71 nM for GSK-3β. ZDWX-25 possesses significant cytotoxic activities against SH-SY5Y and HL-7702 cells. ZDWX-25 can be used for researching alzheimer's disease.</p> <p>Purity: >98% Clinical Data: No Development Reported Size: 1 mg, 5 mg</p> <p>Cat. No.: HY-144826</p> 
<p>ZLWH-23</p> <p>ZLWH-23 is a selective AChE inhibitor (IC₅₀=0.27 μM) with GSK-3β inhibitory property (IC₅₀=6.78 μM). ZLWH-23 possesses selectivity for AChE over BChE (IC₅₀=20.82 μM) and for GSK-3β over multi-kinases. ZLWH-23 has the potential for the research of Alzheimer's disease.</p> <p>Purity: >98% Clinical Data: No Development Reported Size: 1 mg, 5 mg</p> <p>Cat. No.: HY-144316</p> 