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Inhibitors, Screening Libraries, Proteins

Dynamin

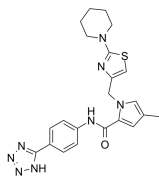
Dynamins are large superfamily GTPase proteins that are involved in various cellular processes including budding of transport vesicles, division of organelles, cytokinesis, and pathogen resistance. Dynamins are involved in scission (cleavage of the vesicle from the parent membrane) of nascent vesicles from parent membranes in eukaryotic cells. Dynamins interact directly with the lipid bilayer at the necks of clathrin-coated pits to sever and release coated vesicles. Dynamins contain five domains, including GTPase domain, middle domain, PH domain, GTPase effector domain (GED), and proline rich domain (PRD), while the dynamin-related proteins (DRPs) lack one or more of these domains or have additional domains. Dynamins and DRPs participate in a wide variety of cellular processes, including budding mitochondrial fission (mammalian Dlp1 and *Saccharomyces cerevisiae* Dnm1) and fusion (mammalian OPA1, *S.cerevisiae* Mgm1 and *Schizosaccharomyces pombe* Msp1), vacuolar fission (*S. cerevisiae* Vps1), interferon-induced anti-viral protection (fish Mx proteins), plant cell cytokinesis and membrane fission (*Arabidopsis thaliana* DRP proteins), as well as pathogen resistance.

Dynamain Inhibitors

Drp1-IN-1

Cat. No.: HY-125222

Drp1-IN-1 (comp A-7) is a **dynamain-1-like protein (Drp1)** inhibitor, with an IC_{50} of 0.91 μ M.

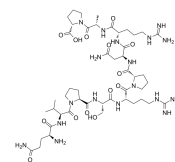


Purity: >98%
Clinical Data: No Development Reported
Size: 5 mg, 10 mg

Dynamain inhibitory peptide

Cat. No.: HY-P1083

Dynamain inhibitory peptide competitively blocks binding of **dynamain** to amphiphysin, thus preventing endocytosis. Dynamain inhibitory peptide blocks the dopamine D3 effect on GABAA receptors.

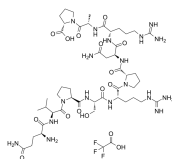


Purity: >98%
Clinical Data: No Development Reported
Size: 1 mg, 5 mg

Dynamain inhibitory peptide TFA

Cat. No.: HY-P1083A

Dynamain inhibitory peptide TFA competitively blocks binding of **dynamain** to amphiphysin, thus preventing endocytosis. Dynamain inhibitory peptide TFA blocks the dopamine D₃ effect on GABA_A receptors.



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

DynaMin inhibitory peptide, myristoylated

Cat. No.: HY-P1369

DynaMin inhibitory peptide, myristoylated is a **DynaMin** inhibitor to interfere with the binding of amphiphysin with dynamain. DynaMin inhibitory peptide, myristoylated is a membrane-permeant form of the peptide that prevents endocytosis.

Myristoyl-QVPSRPNRP-NH₂

Purity: >98%
Clinical Data: No Development Reported
Size: 5 mg, 10 mg, 25 mg

DynaMin inhibitory peptide, myristoylated TFA

Cat. No.: HY-P1369A

DynaMin inhibitory peptide, myristoylated TFA is a **DynaMin** inhibitor to interfere with the binding of amphiphysin with dynamain. DynaMin inhibitory peptide, myristoylated TFA is a membrane-permeant form of the peptide that prevents endocytosis.

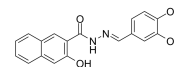
Myristoyl-QVPSRPNRP-NH₂ (TFA salt)

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

Dynasore

Cat. No.: HY-15304

Dynasore is a cell-permeable **dynamain** inhibitor with an IC_{50} of 15 μ M.

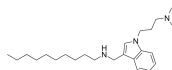


Purity: 98.70%
Clinical Data: No Development Reported
Size: 10 mM × 1 mL, 10 mg, 50 mg

Dynole 2-24

Cat. No.: HY-145080

Dynole 2-24 is an indole-based **dynamain GTPase** inhibitor (IC_{50} =0.56 μ M for dynamain I). Dynole 2-24 is nontoxic and shows increased potency against dynamain I and II in vitro and in cells ($IC_{50(CME)}$ =1.9 μ M). Dynole 2-24 also shows 4.4-fold selectivity for dynamain I.

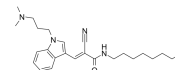


Purity: >98%
Clinical Data: No Development Reported
Size: 1 mg, 5 mg

Dynole 34-2

Cat. No.: HY-107545

Dynole 34-2 is a **dynamain GTPase** inhibitor (IC_{50} s=6.9 and 14.2 μ M for dynamain1 and dynamain2 GTPase activity, respectively) with antimitotic effect. Dynole 34-2 induces apoptosis, as revealed by cell blebbing, DNA fragmentation, and PARP cleavage.



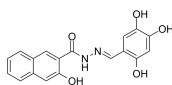
Purity: >98%
Clinical Data: No Development Reported
Size: 1 mg, 5 mg

Hydroxy-Dynasore

(Dyngo-4a)

Cat. No.: HY-13863

Hydroxy Dynasore (Dyngo-4a), a structural analog of Dynasore (HY-15304), is a potency improved, low cytotoxicity and nonspecific binding **dynamain** inhibitor with IC_{50} values of 0.38 μ M and 2.3 μ M for brain dynamain I and recombinant rat dynamain II, respectively.



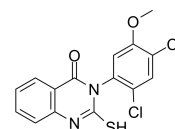
Purity: 98.08%
Clinical Data: No Development Reported
Size: 10 mM × 1 mL, 10 mg, 50 mg, 100 mg

Mdivi-1

(Mitochondrial division inhibitor 1)

Cat. No.: HY-15886

Mdivi-1 is a selective dynamain-related protein 1 (**Drp1**) inhibitor. Mdivi-1 is a mitochondrial division/mitophagy inhibitor.

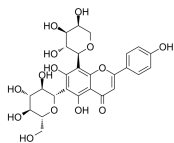


Purity: 99.73%
Clinical Data: No Development Reported
Size: 10 mM × 1 mL, 5 mg, 10 mg, 50 mg, 100 mg

Schaftoside

Cat. No.: HY-N0703

Schaftoside is a flavonoid found in a variety of Chinese herbal medicines, such as *Eleusine indica*. Schaftoside inhibits the expression of TLR4 and Myd88. Schaftoside also decreases Drp1 expression and phosphorylation, and reduces mitochondrial fission.



Purity: 99.88%

Clinical Data: No Development Reported

Size: 10 mM × 1 mL, 5 mg, 10 mg, 20 mg