



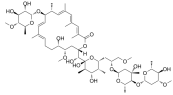
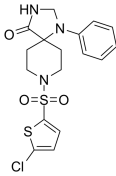
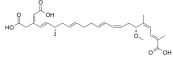
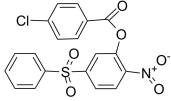
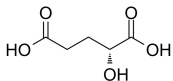
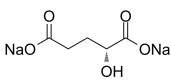
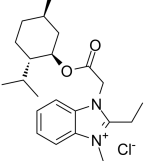
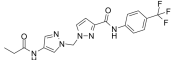
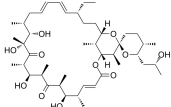
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Inhibitors, Screening Libraries, Proteins

ATP Synthase

ATPases are a class of enzymes that catalyze the decomposition of ATP into ADP and a free phosphate ion. This dephosphorylation reaction releases energy, which the enzyme (in most cases) harnesses to drive other chemical reactions that would not otherwise occur. Some such enzymes are integral membrane proteins and move solutes across the membrane, typically against their concentration gradient. These are called transmembrane ATPases. Transmembrane ATPases import many of the metabolites necessary for cell metabolism and export toxins, wastes, and solutes that can hinder cellular processes. Such as the sodium-potassium exchanger (or Na^+/K^+ ATPase) and the hydrogen potassium ATPase (H^+/K^+ ATPase or gastric proton pump) that acidifies the contents of the stomach.

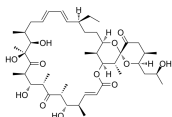
ATP Synthase Inhibitors

<p>Apoptolidin</p> <p>Cat. No.: HY-126679</p>	<p>ATP synthase inhibitor 1</p> <p>Cat. No.: HY-112715</p>
<p>Apoptolidin is a polyketide isolated from <i>Nocardioopsis</i> bacteria. Apoptolidin is a selective mitochondrial F_1F_0 ATPase inhibitor.</p> <p>Purity: ≥95.0% Clinical Data: No Development Reported Size: 100 µg</p> 	<p>ATP synthase inhibitor 1 is a potent inhibitor of c subunit of the F_1F_0-ATP synthase complex, inhibits mitochondrial permeability transition pore (mPTP) opening, does not affect ATP levels.</p> <p>Purity: 99.84% Clinical Data: No Development Reported Size: 5 mg, 10 mg, 25 mg, 50 mg, 100 mg</p> 
<p>Bongkreikic acid</p> <p>Cat. No.: HY-136406</p>	<p>BTB06584</p> <p>Cat. No.: HY-15877</p>
<p>Bongkreikic acid is a mitochondrial toxin secreted by the bacteria <i>Pseudomonas cocovenenans</i>. Bongkreikic acid specific ligand for mitochondrial adenine nucleotide translocase (ANT) rather than the electron transport chain.</p> <p>Purity: ≥95.0% Clinical Data: No Development Reported Size: 500 µg</p> 	<p>BTB06584 is a selective and IF1-dependent mitochondrial F_1F_0-ATPase inhibitor without compromising ATP synthesis. BTB06584 can delays ischaemic cell death.</p> <p>Purity: 99.83% Clinical Data: No Development Reported Size: 10 mM × 1 mL, 5 mg, 10 mg, 50 mg, 100 mg</p> 
<p>D-α-Hydroxyglutaric acid ((R)-2-Hydroxyglutarate; (R)-2-Hydroxyglutaric acid; ...)</p> <p>Cat. No.: HY-113038</p>	<p>D-α-Hydroxyglutaric acid disodium (Disodium (R)-2-hydroxyglutarate)</p> <p>Cat. No.: HY-100542</p>
<p>D-α-Hydroxyglutaric acid ((R)-2-Hydroxyglutarate) is the principal metabolite accumulating in neurometabolic disease D-2-hydroxyglutaric aciduria.</p> <p>Purity: >98% Clinical Data: No Development Reported Size: 5 mg, 10 mg, 25 mg</p> 	<p>D-α-Hydroxyglutaric acid disodium (Disodium (R)-2-hydroxyglutarate) is the principal metabolite accumulating in neurometabolic disease D-2-hydroxyglutaric aciduria.</p> <p>Purity: ≥98.0% Clinical Data: No Development Reported Size: 10 mM × 1 mL, 10 mg, 25 mg, 50 mg, 100 mg</p> 
<p>Gboxin</p> <p>Cat. No.: HY-111651</p>	<p>KUSC-5037</p> <p>Cat. No.: HY-144750</p>
<p>Gboxin is an oxidative phosphorylation (OXPHOS) inhibitor that targets glioblastoma. Gboxin inhibits the activity of F_0F_1 ATP synthase. Antitumour activity.</p> <p>Purity: 99.49% Clinical Data: No Development Reported Size: 10 mM × 1 mL, 5 mg, 10 mg, 25 mg, 50 mg</p> 	<p>KUSC-5037 is a potent HIF-1 inhibitor ($IC_{50}=1.2$ µM). KUSC-5037 inhibits mitochondrial respiratory complex V and F_0F_1-ATP synthase.</p> <p>Purity: >98% Clinical Data: No Development Reported Size: 1 mg, 5 mg</p> 
<p>Oligomycin</p> <p>Cat. No.: HY-N6782</p>	<p>Oligomycin A (MCH 32)</p> <p>Cat. No.: HY-16589</p>
<p>Oligomycin, an antifungal antibiotic, is an inhibitor of H^+-ATP-synthase. Oligomycin blocks oxidative phosphorylation and the electron transport chain. Oligomycin inhibits HIF-1alpha expression in hypoxic tumor cells.</p> <p>Purity: 98.53% Clinical Data: No Development Reported Size: 5 mg, 10 mg, 25 mg</p> <p>Oligomycin</p>	<p>Oligomycin A (MCH 32), created by <i>Streptomyces</i>, acts as a mitochondrial F_0F_1-ATPase inhibitor, with a K_i of 1 µM; Oligomycin A shows anti-fungal activity.</p> <p>Purity: 99.94% Clinical Data: No Development Reported Size: 1 mg, 5 mg, 10 mg, 25 mg, 50 mg, 100 mg</p> 

Oligomycin B

Cat. No.: HY-N6784

Oligomycin B is an antibiotic isolated from marine *Streptomyces*, used as an eukaryotic ATP synthase inhibitor, induces apoptosis.



Purity: >98%

Clinical Data: No Development Reported

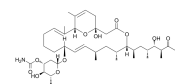
Size: 1 mg, 5 mg, 10 mg

Venturicidin A

(Aabomycin A1)

Cat. No.: HY-N125722

Venturicidin A (Aabomycin A1), from actinomycetes, is a membrane-active natural product inhibitor of ATP synthase.



Purity: >98%

Clinical Data: No Development Reported

Size: 1 mg, 5 mg