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Inhibitors, Agonists, Screening Libraries

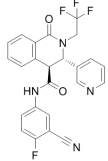
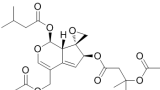
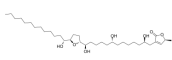
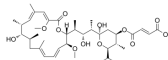
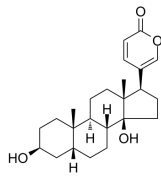
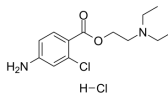
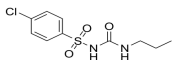
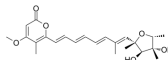
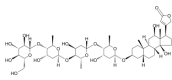
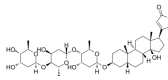
Na⁺/K⁺ ATPase

Sodium potassium pump

Na⁺/K⁺ ATPase (Sodium potassium pump) is a transmembrane protein complex found in all higher eukaryotes acting as a key energy-consuming pump maintaining ionic and osmotic balance in cells. Na⁺/K⁺ ATPase is an emerging cancer target that merits further investigation.

The constant activity of the Na⁺/K⁺-ATPase (NKA, or Na⁺ pump) is essential for re-establishing and maintaining this gradient. In cardiac and vascular smooth muscle the principal isoforms of the NKA are α 1 and α 2 and their physiological role is controlled both by their unique and independent signalling pathways, and their discrete subcellular distribution.

Na⁺/K⁺ ATPase Inhibitors, Antagonists, Activators & Modulators

<p>(+)-SJ733 (SJ000557733) Cat. No.: HY-19556</p>	<p>Acevaltrate Cat. No.: HY-N2070</p>
<p>(+)-SJ733 is an anti-malaria agent which can also inhibit Na⁺-ATPase PfATP4.</p>  <p>Purity: 99.45% Clinical Data: No Development Reported Size: 10 mM × 1 mL, 1 mg, 5 mg, 10 mg, 50 mg, 100 mg</p>	<p>Acevaltrate, isolated from Valeriana glechomifolia, inhibits the Na⁺/K⁺-ATPase activity in the rat kidney and brain hemispheres with IC₅₀s of 22.8±1.1 μM and 42.3±1.0 μM, respectively.</p>  <p>Purity: 99.56% Clinical Data: No Development Reported Size: 10 mM × 1 mL, 5 mg, 10 mg, 25 mg, 50 mg, 100 mg</p>
<p>Annonacin Cat. No.: HY-N2877</p>	<p>Bafilomycin C1 Cat. No.: HY-130173</p>
<p>Annonacin is an Acetogenin and promotes cytotoxicity via a pathway inhibiting the mitochondrial complex. Annonacin is the active agent found in Graviola leaf extract to act as an inhibitor of sodium/potassium (NKA) and sarcoplasmic reticulum (SERCA) ATPase pumps.</p>  <p>Purity: >98% Clinical Data: No Development Reported Size: 5 mg</p>	<p>Bafilomycin C1 is a macrolide antibiotic isolated from Streptomyces sp. Bafilomycin C1 is a potent, specific and reversible inhibitor of vacuolar-type H⁺-ATPases (V-ATPases). Bafilomycin C1 inhibits growth of gram-positive bacteria and fungi.</p>  <p>Purity: >98% Clinical Data: No Development Reported Size: 1 mg, 5 mg</p>
<p>Bufalin Cat. No.: HY-N0877</p>	<p>Chlorprocaine hydrochloride (2-Chlorprocaine hydrochloride) Cat. No.: HY-B1604</p>
<p>Bufalin is an active component isolated from Chan Su, acts as a potent Na⁺/K⁺-ATPase inhibitor, binds to the subunit α1, α2 and α3, with K_d of 42.5, 45 and 40 nM, respectively. Anti-cancer activity.</p>  <p>Purity: 98.85% Clinical Data: No Development Reported Size: 10 mM × 1 mL, 5 mg, 10 mg</p>	<p>Chlorprocaine hydrochloride (2-Chlorprocaine hydrochloride) is a potent inhibitor of Na,K-ATPase activity with an IC₅₀ of 13 mM. Chlorprocaine hydrochloride blocks peripheral nerve.</p>  <p>Purity: 99.18% Clinical Data: Launched Size: 10 mM × 1 mL, 5 mg, 10 mg, 25 mg, 100 mg</p>
<p>Chlorpropamide Cat. No.: HY-B1429</p>	<p>Citreoviridin Cat. No.: HY-N6745</p>
<p>Chlorpropamide is an oral antihyperglycemic agent used for the treatment of non-insulin-dependent diabetes mellitus (NIDDM). Target: Chlorpropamide belongs to the sulfonylurea class of insulin secretagogues, which act by stimulating β cells of the pancreas to release insulin.</p>  <p>Purity: 99.24% Clinical Data: Launched Size: 10 mM × 1 mL, 100 mg</p>	<p>Citreoviridin, a toxin from Penicillium citreoviride NRRL 2579, inhibits brain synaptosomal Na⁺/K⁺-ATPase whereas in microsomes, both Na⁺/K⁺-ATPase and Mg²⁺-ATPase activities are significantly stimulated in a dose-dependent manner.</p>  <p>Purity: >98% Clinical Data: No Development Reported Size: 1 mg, 5 mg</p>
<p>Deslanoside (Deacetyllanoside C; Desacetyllanoside C) Cat. No.: HY-A0154</p>	<p>Digitoxin Cat. No.: HY-B1357</p>
<p>Deslanoside (Desacetyllanoside C) is a rapidly acting cardiac glycoside used to treat congestive heart failure and supraventricular arrhythmias due to reentry mechanisms, and to control ventricular rate in the treatment of chronic atrial fibrillation.</p>  <p>Purity: 99.76% Clinical Data: Launched Size: 10 mM × 1 mL, 5 mg, 10 mg</p>	<p>Digitoxin is an effective Na⁺/K⁺-ATPase inhibitor, the EC50 value of Digitoxin is 0.78 μM.</p>  <p>Purity: 99.18% Clinical Data: Launched Size: 10 mM × 1 mL, 5 mg</p>

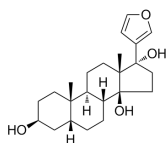
<p>Ginsenoside Rb1 (Gyenoside III)</p> <p style="text-align: right;">Cat. No.: HY-N0039</p>	<p>Istaroxime (PST2744)</p> <p style="text-align: right;">Cat. No.: HY-15718</p>
<p>Ginsenoside Rb1, a main constituent of the root of Panax ginseng, inhibits Na⁺, K⁺-ATPase activity with an IC₅₀ of 6.3±1.0 μM. Ginsenoside also inhibits IRAK-1 activation and phosphorylation of NF-κB p65 .</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>Istaroxime (PST2744) is a potent inhibitor of Na⁺,K⁺-ATPase with IC₅₀ of 0.11 μM.</p> <p>Purity: >98% Clinical Data: Phase 2 Size: 1 mg, 5 mg</p>
<p>Istaroxime hydrochloride (PST2744 hydrochloride)</p> <p style="text-align: right;">Cat. No.: HY-15718A</p>	<p>Marinobufogenin</p> <p style="text-align: right;">Cat. No.: HY-N6574</p>
<p>Istaroxime hydrochloride is a Na⁺/K⁺-ATPase inhibitor (IC₅₀=0.11 μM) and a sarcoplasmic/endoplasmic reticulum calcium ATPase 2 (SERCA 2) activator.</p> <p>Purity: 99.32% Clinical Data: Phase 2 Size: 10 mM × 1 mL, 5 mg, 10 mg, 50 mg, 100 mg</p>	<p>Marinobufogenin is a strong inhibitor of Na⁺/K⁺ ATPase that has been identified in mammalian plasma.</p> <p>Purity: >98% Clinical Data: No Development Reported Size: 1 mg, 5 mg</p>
<p>Oleandrin</p> <p style="text-align: right;">Cat. No.: HY-13719</p>	<p>Oleic acid (9-cis-Octadecenoic acid; 9Z-Octadecenoic acid)</p> <p style="text-align: right;">Cat. No.: HY-N1446</p>
<p>Oleandrin inhibits the Na⁺, K⁺-ATPase activity with an IC₅₀ of 620 nM. Oleandrin induces apoptosis via activating endoplasmic reticulum stress.</p> <p>Purity: 99.84% Clinical Data: No Development Reported Size: 10 mM × 1 mL, 2 mg, 5 mg, 10 mg, 25 mg</p>	<p>Oleic acid is an abundant monounsaturated fatty acid. Oleic acid is a Na⁺/K⁺ ATPase activator.</p> <p>Purity: >98.0% Clinical Data: Launched Size: 10 mM × 1 mL, 1 mg</p>
<p>Ouabain Octahydrate (Acocantherine; G-Strophanthin)</p> <p style="text-align: right;">Cat. No.: HY-B0542</p>	<p>Phlorizin (Floridzin; NSC 2833)</p> <p style="text-align: right;">Cat. No.: HY-N0143</p>
<p>Ouabain Octahydrate is an inhibitor of Na⁺/K⁺-ATPase, used for the treatment of congestive heart failure.</p> <p>Purity: 99.96% Clinical Data: Launched Size: 10 mM × 1 mL, 100 mg</p>	<p>Phlorizin is a non-selective SGLT inhibitor with K_s of 300 and 39 nM for hSGLT1 and hSGLT2, respectively. Phlorizin is also a Na⁺/K⁺-ATPase inhibitor.</p> <p>Purity: 98.79% Clinical Data: No Development Reported Size: 10 mM × 1 mL, 500 mg, 1 g, 5 g</p>
<p>Prilocaine</p> <p style="text-align: right;">Cat. No.: HY-B0137</p>	<p>Prilocaine hydrochloride</p> <p style="text-align: right;">Cat. No.: HY-B0137A</p>
<p>Prilocaine is an amino amide type compound that used for anesthesia. Target: Others Prilocaine is an amino amide type compound that used for anesthesia. In its injectable form (trade name Citanest), it is often used in dentistry.</p> <p>Purity: 99.03% Clinical Data: Launched Size: 10 mM × 1 mL, 50 mg, 100 mg</p>	<p>Prilocaine hydrochloride is an amino amide type compound that used for anesthesia. Target: Others Prilocaine is an amino amide type compound that used for anesthesia and first be prepared by Claes Tegner and Nils L fgren.</p> <p>Purity: >98% Clinical Data: Launched Size: 1 mg, 5 mg</p>

Rostafuroxin

(PST 2238)

Cat. No.: HY-12283

Rostafuroxin(PST 2238) is a antihypertensive compound; Na,K-ATPase antagonist;displaced [3H]ouabain from the dogkidney Na⁺,K⁺-ATPase with IC50 of 1.5 nM.



Purity: 96.70%

Clinical Data: Phase 2

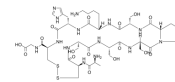
Size: 10 mM × 1 mL, 5 mg, 10 mg, 50 mg, 100 mg

Transdermal Peptide

(TD 1 (peptide))

Cat. No.: HY-P1565

Transdermal Peptide (TD 1 peptide) is a 11-amino acid peptide, binds to Na⁺/K⁺-ATPase **beta-subunit (ATP1B1)**, and mainly interacts with the C-terminus of ATP1B1. Transdermal Peptide can enhance the transdermal delivery of many macromolecules.



Purity: >98%

Clinical Data: No Development Reported

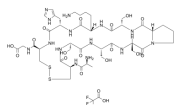
Size: 1 mg, 5 mg

Transdermal Peptide TFA

(TD 1 (peptide) (TFA))

Cat. No.: HY-P1565A

Transdermal Peptide TFA (TD 1 peptide TFA) is a 11-amino acid peptide, binds to Na⁺/K⁺-ATPase **beta-subunit (ATP1B1)**, and mainly interacts with the C-terminus of ATP1B1. Transdermal Peptide TFA can enhance the transdermal delivery of many macromolecules.



Purity: 98.45%

Clinical Data: No Development Reported

Size: 10 mM × 1 mL, 1 mg, 5 mg, 10 mg