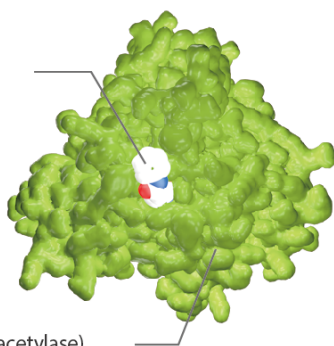


Quinones

HDAC Inhibitor:
Vorinostat (SAHA)








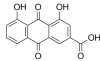

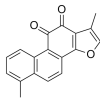
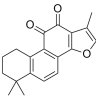
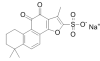

HDAC (Histone deacetylase)

The quinones represent a class of organic compounds that are formally "derived from aromatic compounds [such as benzene or naphthalene] by conversion of an even number of $-CH=$ groups into $-C(=O)-$ groups with any necessary rearrangement of double bonds", resulting in "a fully conjugated cyclic dione structure". The class includes some heterocyclic compounds. A large scale industrial application of quinones is for the production of hydrogen peroxide. Natural quinones show a biological or pharmacological activity, and some of them show anti-tumoral activity. They embody some claims in herbal medicine. Some quinone derivatives are used for coloring substances (dyes and pigments) and oxidizing agents.

Quinones Inhibitors & Modulators

<p>Aloe emodin (Rhubarberone; 3-Hydroxymethylchryszazine) Cat. No.: HY-N0189</p> <p>Bioactivity: Aloe emodin is a hydroxyanthraquinone present in Aloe vera leaves, has a specific in vitro and in vivo antitumor activity.</p> <p>Purity: 97.70% Clinical Data: No Development Reported Size: 10mM x 1mL in DMSO, 100 mg, 500 mg</p> 	<p>Aloin (Aloin-A; Barbaloin-A) Cat. No.: HY-N0123</p> <p>Bioactivity: Aloin(Aloin-A; Barbaloin-A) is a natural antitumor anthraquinone glycoside with iron chelating and non-atherogenic activities.</p> <p>Purity: 98.78% Clinical Data: No Development Reported Size: 10mM x 1mL in DMSO, 50 mg, 100 mg</p> 
<p>Aloin B (Aloin-B; Isobarbaloin) Cat. No.: HY-N0886</p> <p>Bioactivity: Aloin B is one isomer of Aloin; Aloin is a physiologically active anthraquinone present in aloe.</p> <p>Purity: 99.69% Clinical Data: No Development Reported Size: 10mM x 1mL in DMSO, 5 mg, 10 mg</p> 	<p>Bisantrene (CL216942) Cat. No.: HY-100875</p> <p>Bioactivity: Bisantrene is a highly effective antitumor drug, targets eukaryotic type II topoisomerases.</p> <p>Purity: 96.35% Clinical Data: No Development Reported Size: 10 mg, 25 mg, 50 mg</p> 
<p>Chrysophanol (Chrysophanic acid) Cat. No.: HY-13595</p> <p>Bioactivity: Chrysophanol (Chrysophanic acid) is a natural anthraquinone, which inhibits EGF-induced phosphorylation of EGFR and suppresses activation of AKT and mTOR/ p70S6K.</p> <p>Purity: 99.63% Clinical Data: No Development Reported Size: 10mM x 1mL in DMSO, 50 mg, 100 mg</p> 	<p>Coenzyme Q10 (Ubiquinone-10; CoQ10) Cat. No.: HY-N0111</p> <p>Bioactivity: Coenzyme Q10 is an essential cofactor of the electron transport chain and a potent antioxidant agent.</p> <p>Purity: 98.0% Clinical Data: No Development Reported Size: 100 mg, 200 mg, 500 mg, 1 g, 5 g</p> 
<p>Coenzyme Q9 (Ubiquinone Q9; CoQ9; Ubiquinone 9) Cat. No.: HY-101415</p> <p>Bioactivity: Coenzyme Q₉, a nine isoprenyl group-containing member of the ubiquinone family, is a normal constituent of human plasma.</p> <p>Purity: 98.0% Clinical Data: No Development Reported Size: 10mM x 1mL in DMSO, 1 mg, 5 mg, 10 mg</p> 	<p>Cryptotanshinone (Cryptotanshinon; Tanshinone c) Cat. No.: HY-N0174</p> <p>Bioactivity: Cryptotanshinone is a natural compound extracted from the root of <i>Salvia miltiorrhiza</i> Bunge that shows antitumor activities. Cryptotanshinone inhibits STAT3 with an IC₅₀ of 4.6 μM.</p> <p>Purity: 98.51% Clinical Data: No Development Reported Size: 10mM x 1mL in DMSO, 10 mg, 50 mg</p> 
<p>Cytosine Cat. No.: HY-10626</p> <p>Bioactivity: Cytosine is an organic compound that belongs to the class known as pyrimidones.</p> <p>Purity: 99.52% Clinical Data: No Development Reported Size: 10mM x 1mL in DMSO, 5 g</p> 	<p>Daunorubicin (RP13057; Daunomycin; Rubidomycin) Cat. No.: HY-13062A</p> <p>Bioactivity: Daunorubicin is a topoisomerase II inhibitor.</p> <p>Purity: >98% Clinical Data: Launched Size: 10 mg, 50 mg</p> 

<p>Daunorubicin Hydrochloride (RP 13057 Hydrochloride; Daunomycin; RP13057 Hydrochloride; ...) Cat. No.: HY-13062</p> <p>Bioactivity: Daunorubicin hydrochloride is a topoisomerase II inhibitor with potent antineoplastic activities.</p> <p>Purity: 99.27% Clinical Data: Launched Size: 10mM x 1mL in Water, 10 mg, 50 mg, 100 mg, 200 mg, 500 mg</p> 	<p>Diacerein (Diacerhein; Diacetylrhein) Cat. No.: HY-N0283</p> <p>Bioactivity: Diacerein (Diacerhein), an interleukin-1 beta inhibitor, is a slow-acting medicine of the class anthraquinone used to treat joint diseases.</p> <p>Purity: 98.78% Clinical Data: Launched Size: 10mM x 1mL in DMSO, 50 mg, 100 mg</p> 
<p>Dihydroisotanshinone I Cat. No.: HY-B1919</p> <p>Bioactivity: Dihydroisotanshinone I is a bioactive compound present in a widely used traditional Chinese medicine named danshen.</p> <p>Purity: 99.61% Clinical Data: No Development Reported Size: 10mM x 1mL in DMSO, 5 mg, 10 mg, 25 mg, 50 mg</p> 	<p>Dihydrotanshinone I Cat. No.: HY-N0360</p> <p>Bioactivity: Dihydrotanshinone I is a natural compound extracted from <i>Salvia miltiorrhiza</i> Bunge which has been widely used for treating cardiovascular diseases.</p> <p>Purity: 99.59% Clinical Data: No Development Reported Size: 10mM x 1mL in DMSO, 10 mg, 25 mg, 50 mg</p> 
<p>Embelin (Embelic acid; Emberine; NSC 91874) Cat. No.: HY-17473</p> <p>Bioactivity: Embelin is a cell-permeable benzoquinone compound that exhibits antitumor properties. Specifically antagonizes XIAP-mediated inhibition of caspase-9 activation by directly targeting the Smac and caspase-9 binding domain BIR3 (IC50 = 4.1 uM in a competitive binding assay with Smac peptide). IC50...</p> <p>Purity: 98.75% Clinical Data: Launched Size: 10mM x 1mL in DMSO, 10 mg, 50 mg</p> 	<p>Emodin (Frangula emodin) Cat. No.: HY-14393</p> <p>Bioactivity: Emodin is a broad-spectrum anticancer agent. Emodin inhibits casein kinase II (CKII) activity with IC₅₀ of 2 μM.</p> <p>Purity: 98.0% Clinical Data: No Development Reported Size: 10mM x 1mL in DMSO, 50 mg, 100 mg, 200 mg</p> 
<p>Idebenone Cat. No.: HY-N0303</p> <p>Bioactivity: Idebenone is a synthetic variant of coenzyme Q10 (CoQ10), which initially developed for the treatment of Alzheimer's disease and other cognitive defects. Target: Others Idebenone is a synthetic variant of coenzyme Q10 (CoQ10), which initially developed for the treatment of Alzheimer's disease...</p> <p>Purity: 99.73% Clinical Data: Launched Size: 10mM x 1mL in DMSO, 10 mg, 50 mg, 100 mg</p> 	<p>Menadione (Vitamin K3) Cat. No.: HY-B0332</p> <p>Bioactivity: Menadione, a synthetic naphthoquinone, can be converted to active vitamin K2 in vivo. Target: Others Menadione (Vitamin K3) is a synthetic analogue of 1,4-naphthoquinone with a methyl group in the 2-position. Menadione is used as a phosphatase inhibitor and an inhibitor of mitochondrial DNA...</p> <p>Purity: 98.57% Clinical Data: Launched Size: 10mM x 1mL in DMSO, 500 mg, 1 g</p> 
<p>Phloretin (NSC 407292; RJC 02792) Cat. No.: HY-N0142</p> <p>Bioactivity: Phloretin (NSC 407292; RJC 02792) is a dihydrochalcone, a type of natural phenols. Phloretin inhibits the active transport of glucose into cells by SGLT1 and SGLT2.</p> <p>Purity: 99.70% Clinical Data: No Development Reported Size: 10mM x 1mL in DMSO, 250 mg, 500 mg</p> 	<p>Physcion (Parietin; Rheochrysidin) Cat. No.: HY-N0108</p> <p>Bioactivity: Physcion (Parietin) is an anthraquinone isolated from traditional Chinese medicine <i>Radix et Rhizoma Rhei</i>, acts as an inhibitor of 6-phosphogluconate dehydrogenase, with an IC₅₀ and a K_d of 38.5 μM and 26.0 μM, respectively [1] [2]</p> <p>Purity: >98% Clinical Data: No Development Reported Size: 10mM x 1mL in DMSO, 10 mg, 50 mg</p> 

<p>Plumbagin (2-Methyljuglone) Cat. No.: HY-N1497</p> <p>Bioactivity: Plumbagin (2-Methyljuglone) is a naphthoquinone isolated from <i>Plumbago zeylanica</i> L, exhibits anticancer and antiproliferative activities ^[1].</p> <p>Purity: 99.65% Clinical Data: No Development Reported Size: 10mM x 1mL in DMSO, 50 mg</p> 	<p>Rhein (Rheic Acid; Rhubarb yellow; Monorhein) Cat. No.: HY-N0105</p> <p>Bioactivity: Rhein is a lipophilic anthraquinone extensively found in medicinal herbs, and has many pharmacological effects, including epatoprotective, nephroprotective, anti-inflammatory, antioxidant, anticancer, and antimicrobial activities. IC50 value: Target: In vitro: Rhein (0.1 and 1...</p> <p>Purity: 99.0% Clinical Data: No Development Reported Size: 10mM x 1mL in DMSO, 100 mg, 200 mg, 500 mg</p> 
<p>Shikonin (C.I. 75535; Isoarnebin 4) Cat. No.: HY-N0822</p> <p>Bioactivity: Shikonin is a major component of a Chinese herbal medicine named zicao. Shikonin has shown various biological activities, including inhibition of TNF-α, NF-κB, HIV-1.</p> <p>Purity: 99.80% Clinical Data: No Development Reported Size: 10mM x 1mL in DMSO, 10 mg, 25 mg, 50 mg, 100 mg</p> 	<p>Tanshinone I (Tanshinone A) Cat. No.: HY-N0134</p> <p>Bioactivity: Tanshinone I is an inhibitor of type IIA human recombinant sPLA₂ (IC₅₀=11 μM) and rabbit recombinant cPLA₂ (IC₅₀=82 μM).</p> <p>Purity: 98.0% Clinical Data: Phase 4 Size: 5 mg, 10 mg, 25 mg, 50 mg, 100 mg</p> 
<p>Tanshinone IIA (Dan Shen ketone) Cat. No.: HY-N0135</p> <p>Bioactivity: Tanshinone IIA (Tan IIA) is one of the main fat-soluble compositions in the root of red-rooted salvia. Tanshinone IIA may suppress angiogenesis by targeting the protein kinase domains of VEGF/ VEGFR2.</p> <p>Purity: 99.07% Clinical Data: Phase 4 Size: 10 mg, 25 mg, 50 mg</p> 	<p>Tanshinone IIA sulfonate sodium (Sodium Tanshinone IIA sulfonate; Tanshinone IIA sodium sulfonate) Cat. No.: HY-N1370</p> <p>Bioactivity: Tanshinone IIA sulfonate (sodium) is a water-soluble derivative of tanshinone IIA, which acts as an inhibitor of store-operated Ca²⁺ entry (SOCE), and is used to treat cardiovascular disorders.</p> <p>Purity: 98.0% Clinical Data: Phase 4 Size: 10 mg, 25 mg</p> 
<p>Vitamin K1 (Phylloquinone; Phytomenadione) Cat. No.: HY-N0684</p> <p>Bioactivity: Vitamin K1 a fat-soluble, naturally occurring vitamin required for blood coagulation and bone and vascular metabolism.</p> <p>Purity: 98.0% Clinical Data: Launched Size: 10mM x 1mL in DMSO, 1 g, 5 g</p> 	<p>β-Lapachone (ARQ-501; NSC-26326) Cat. No.: HY-13555</p> <p>Bioactivity: β-Lapachone is a naturally occurring O-naphthoquinone, acts as a topoisomerase I inhibitor, and induces apoptosis by inhibiting cell cycle progression.</p> <p>Purity: 99.72% Clinical Data: No Development Reported Size: 10mM x 1mL in DMSO, 10 mg, 50 mg, 100 mg</p> 