



[www.MedChemExpress.com](http://www.MedChemExpress.com)

Inhibitors, Screening Libraries, Proteins

# PTEN

Phosphatase and tensin homolog; MMAC1

PTEN (Phosphatase and tensin homologue deleted on chromosome 10), a phosphoinositide 3-phosphatase, is an important regulator of insulin-dependent signaling. The loss or impairment of PTEN results in an antidiabetic impact, which led to the suggestion that PTEN could be an important target for drugs against type II diabetes. PTEN has a much wider active site cleft enabling it to bind the PtdIns(3,4,5)P<sub>3</sub> substrate. a highly potent and specific inhibitor of PTEN that increases cellular PtdIns(3,4,5)P<sub>3</sub> levels, phosphorylation of Akt, and glucose uptake in adipocytes at nanomolar concentrations.

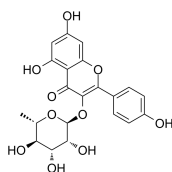
## PTEN Inhibitors & Activators

### Afzelin

(Kaempferol-3-O-rhamnoside)

Cat. No.: HY-N1441

Afzelin (Kaempferol-3-O-rhamnoside) is a flavonol glycoside found in *Houttuynia cordata* Thunberg and is widely used in the preparation of antibacterial and antipyretic agents, detoxicants and for the treatment of inflammation.

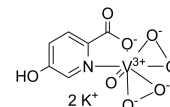


**Purity:** 99.62%  
**Clinical Data:** No Development Reported  
**Size:** 1 mg, 5 mg, 10 mg, 25 mg

### BpV(HOPic)

Cat. No.: HY-128693

BpV(HOPic) is a potent and selective inhibitor of PTEN with an  $IC_{50}$  of 14 nM. Nanocarrier-BpV(HOPic) has neuroprotective activity.

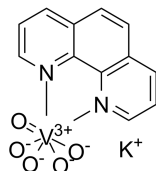


**Purity:** ≥95.0%  
**Clinical Data:** No Development Reported  
**Size:** 5 mg

### bpV(phen)

Cat. No.: HY-136065

bpV(phen), a insulin-mimetic agent, is a potent protein tyrosine phosphatase (PTP) and PTEN inhibitor with  $IC_{50}$ s of 38 nM, 343 nM and 920 nM for PTEN, PTP- $\beta$  and PTP-1B, respectively. bpV(phen) inhibits proliferation of the protozoan parasite *Leishmania* in vitro.

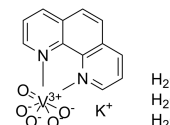


**Purity:** >98%  
**Clinical Data:** No Development Reported  
**Size:** 1 mg, 5 mg

### bpV(phen) trihydrate

Cat. No.: HY-122818

bpV(phen) trihydrate, a insulin-mimetic agent, is a potent protein tyrosine phosphatase (PTP) and PTEN inhibitor with  $IC_{50}$ s of 38 nM, 343 nM and 920 nM for PTEN, PTP- $\beta$  and PTP-1B, respectively.



**Purity:** ≥98.0%  
**Clinical Data:** No Development Reported  
**Size:** 5 mg, 10 mg, 25 mg, 50 mg, 100 mg

### Ginkgolic acid C17:1

Cat. No.: HY-N2116

Ginkgolic acid C17:1, extracted from *Ginkgo biloba* Leaves, suppresses constitutive and inducible STAT3 activation through induction of PTEN and SHP-1 tyrosine phosphatase. Ginkgolic acid C17:1 has anticancer effects.

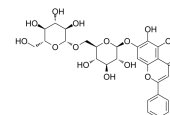


**Purity:** 99.90%  
**Clinical Data:** No Development Reported  
**Size:** 5 mg, 10 mg

### Oroxin B

Cat. No.: HY-N1435

Oroxin B (OB) is a flavonoid isolated from traditional Chinese herbal medicine *Oroxylum indicum* (L.) Vent.

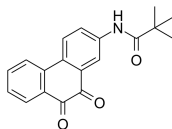


**Purity:** 99.71%  
**Clinical Data:** No Development Reported  
**Size:** 5 mg, 10 mg

### SF1670

Cat. No.: HY-15842

SF1670 is a potent and specific phosphatase and tensin homolog deleted on chromosome 10 (PTEN) inhibitor.

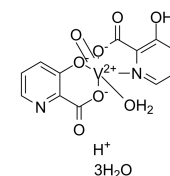


**Purity:** ≥98.0%  
**Clinical Data:** No Development Reported  
**Size:** 10 mM × 1 mL, 5 mg, 10 mg, 25 mg, 50 mg, 100 mg

### VO-Ohpic trihydrate

Cat. No.: HY-13074

VO-Ohpic trihydrate is a highly potent inhibitor of PTEN with an  $IC_{50}$  of  $46 \pm 10$  nM.



**Purity:** ≥98.0%  
**Clinical Data:** No Development Reported  
**Size:** 10 mM × 1 mL, 5 mg, 10 mg, 50 mg, 100 mg, 200 mg