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Inhibitors, Agonists, Screening Libraries

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)P₃ substrate. a highly potent and specific inhibitor of PTEN that increases cellular PtdIns(3,4,5)P₃ levels, phosphorylation of Akt, and glucose uptake in adipocytes at nanomolar concentrations.

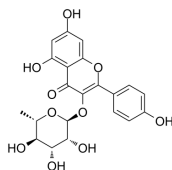
PTEN Inhibitors & Activators

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: 10 mM × 1 mL, 1 mg, 5 mg, 10 mg, 25 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: >98%

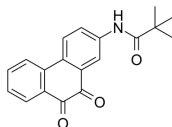
Clinical Data: No Development Reported

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%

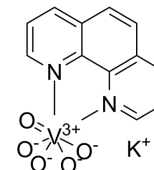
Clinical Data: No Development Reported

Size: 10 mM × 1 mL, 5 mg, 10 mg, 25 mg, 50 mg, 100 mg

bpV(phen)

Cat. No.: HY-136065

bpV(phen) 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- β** and **PTP-1B**. bpV(phen) is an insulin-mimetic agent following insulin-receptor tyrosine kinase hyperphosphorylation and activation.



Purity: >98%

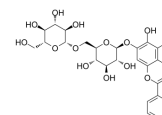
Clinical Data: No Development Reported

Size: 1 mg, 5 mg

Oroxin B

Cat. No.: HY-N1435

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



Purity: 98.77%

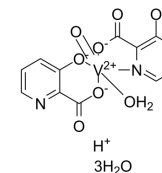
Clinical Data: No Development Reported

Size: 5 mg, 10 mg

VO-Ohpic trihydrate

Cat. No.: HY-13074

VO-Ohpic trihydrate is a highly potent inhibitor of PTEN with an IC_{50} of 46 ± 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