



Rosiptor

Catalog No: tcsc0030509

Available Sizes
Size: 5mg
Size: 10mg
Size: 50mg
Size: 100mg
Specifications
CAS No: 782487-28-9
Formula: C ₂₀ H ₃₅ NO ₂
Pathway: Metabolic Enzyme/Protease
Target: Phosphatase
Purity / Grade: >98%
Solubility: DMSO: 150 mg/mL (466.56 mM; Need ultrasonic and warming)
Alternative Names: AQX-1125
Observed Molecular Weight: 321.5





Product Description

Rosiptor is an activator of SH2-containing inositol-5\'-phosphatase 1 (SHIP1).

IC50 & Target: SHIP1^[1]

In Vitro: Rosiptor is a small-molecule SHIP1 activator. The activating effect of Rosiptor on SHIP1 is 28% at 100 μ M in the native enzyme but no effect of Rosiptor is observed when the SHIP1 Δ C2 enzyme is used. Rosiptor induces a concentration-dependent decrease in Akt phosphorylation in MOLT-4 cells, while it fails to affect Akt phosphorylation in Jurkat cells. At 0.1 μ M Rosiptor the inhibition amounts to an average of 34%, while at 10 μ M the inhibition amounts to an average of 82% in two independent experiments. Rosiptor also induces a concentration-dependent decrease in the production of multiple pro-inflammatory mediators in this system, without affecting cell viability. Rosiptor dose dependently inhibits chemotaxis of most cell types at low micromolar concentrations independent of the chemotactic stimulus [1].

In Vivo: In female Sprague-Dawley rats, the single-dose pharmacokinetics of Rosiptor show that the increases in maximal plasma concentration (C_{max}) and $AUC_{0-\infty}$ are dose-proportional at the lower end of the dosing regimen and greater than dose proportional at the higher doses. The oral bioavailability of Rosiptor in rats is 66 and 85% at 10 and 30 mg/kg respectively. Oral bioavailability of Rosiptor in dogs is 88 and 104% at 10 and 30 mg/kg respectively. High tissue concentrations of Rosiptor are detected, as compared to plasma concentrations, at each time point studied^[1].

All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!