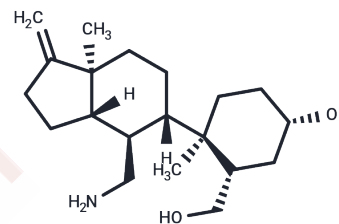


Rosiptor

Chemical Properties

CAS No. :	782487-28-9
Formula:	C ₂₀ H ₃₅ N ₂ O ₂
Molecular Weight:	321.5
Storage:	Store at low temperature Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	Rosiptor (AQX-1125) (AQX-1125) is an orally-active and specific phosphatase SHIP1 activator with anti-inflammatory effects.
Targets(IC50)	Phosphatase
In vitro	In MOLT-4 but not Jurkat cells, Rosiptor (0.1-10 μ M, 30 minutes) inhibits Akt activation [1].
In vivo	Rosiptor (10 mg/kg, p.o.) has the C _{max} value of 0.830 μ M and the t _{1/2} value of 5.2 hours. AQX-1125 also exhibits >80% oral bioavailability [1]. Rosiptor (3-30 mg/kg, p.o., daily for 3 days) significantly reduces the total number of BAL leukocytes in NSC-125066-challenged mice and reduces MPO activity [2].
Cell Research	Cell Line: MOLT-4 cells and SHIP1-deficient Jurkat cells (IGF-1 stimulation) [1]. Concentration: 0.1, 1, 10 μ M. Incubation Time: 30 minutes
Animal Research	Animal Model: 6-8 weeks old male CD-1 mice[1]. Dosage: 3, 10, 30 mg/kg. Administration: p.o., daily for 3 days

Solubility Information

Solubility	DMSO: 145 mg/mL (451.01 mM),Sonication and heating are recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.1104 mL	15.5521 mL	31.1042 mL
5 mM	0.6221 mL	3.1104 mL	6.2208 mL
10 mM	0.311 mL	1.5552 mL	3.1104 mL
50 mM	0.0622 mL	0.311 mL	0.6221 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Stenton GR, et al. Characterization of AQX-1125, a small-molecule SHIP1 activator: Part 1. Effects on inflammatory cell activation and chemotaxis in vitro and pharmacokinetic characterization in vivo. *Br J Pharmacol.* 2013 Mar;168(6):1506-18.

Cross J, et al. AQX-1125, small molecule SHIP1 activator inhibits NSC-125066-induced pulmonary fibrosis. *Br J Pharmacol.* 2017 Sep;174(18):3045-3057.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481