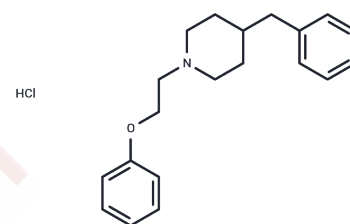


S1R agonist 1 hydrochloride

Chemical Properties

CAS No. :	242487-82-7
Formula:	C ₂₀ H ₂₆ ClNO
Molecular Weight:	331.88
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	S1R Agonist 1 (Compound 6b) hydrochloride is a selective S1R agonist, displaying K _i values of 0.93 nM for S1R and 72 nM for S2R, and has demonstrated neuroprotective effects against ROS and NMDA-induced neurotoxicity [1].
Targets(IC50)	Sigma receptor
In vitro	S1R agonist 1 (Compound 6b; 0.1-5 μM) hydrochloride significantly enhances neurite outgrowth induced by nerve growth factor (NGF) in a dose-dependent manner in PC12 cells and, at 1 μM for 24 hours, inhibits Rotenone-induced damage in SHSY5Y cells [1]. Additionally, it demonstrates neuroprotective effects against NMDA stimulation in SHSY5Y cells at 0.1-5 μM over 24 hours and shows no cytotoxicity in A549, LoVo, and Panc-1 cells at 0-10 μM over 24-72 hours [1].
In vivo	Compound 6b, a selective S1R agonist at concentrations ranging from 0.1 to 50 μM, was administered over 120 hours, resulting in the death of 4 out of 8 zebrafish embryos at a 10 μM concentration [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.0131 mL	15.0657 mL	30.1314 mL
5 mM	0.6026 mL	3.0131 mL	6.0263 mL
10 mM	0.3013 mL	1.5066 mL	3.0131 mL
50 mM	0.0603 mL	0.3013 mL	0.6026 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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