

## S1R agonist 2 hydrochloride

## Chemical Properties

CAS No. :

Formula: C<sub>21</sub>H<sub>28</sub>ClNO

Molecular Weight: 345.91

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	Compound 8b hydrochloride, a selective S1R agonist, exhibits affinity with K <sub>i</sub> s of 1.1 nM for S1R and 88 nM for S2R. It demonstrates neuroprotective effects against ROS and NMDA-induced neurotoxicity [1].
Targets(IC50)	Sigma receptor
In vitro	S1R agonist 2 (Compound 8b; 0.1-5 μM) hydrochloride significantly enhances NGF-induced neurite outgrowth in a dose-dependent manner; at 1 μM over 24 hours, it markedly inhibits Rotenone-induced cellular damage in SHSY5Y cells. Additionally, it offers neuroprotection against NMDA stimulation in SHSY5Y cells at 0.1-5 μM over 24 hours. This compound exhibits no cytotoxicity in A549, LoVo, and Panc-1 cells at varying concentrations (0-10 μM) and durations (24-72 h) [1].
In vivo	Compound 8b (S1R agonist 2; 0.1-50 μM; 120 h) hydrochloride at a concentration of 10 μM does not induce embryonic mortality (100% survival of embryos), yet at the highest dosage (50 μM), it induces death in all embryos [1].

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.8909 mL	14.4546 mL	28.9093 mL
5 mM	0.5782 mL	2.8909 mL	5.7819 mL
10 mM	0.2891 mL	1.4455 mL	2.8909 mL
50 mM	0.0578 mL	0.2891 mL	0.5782 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**

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