

Product Data Sheet

Product Name: S1R agonist 1

Cat. No.: GC73273

Chemical Properties

Cas. No. 193354-70-0

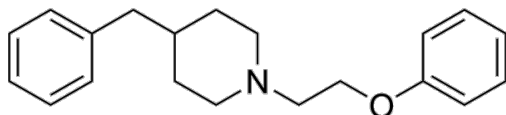
Formula $C_{20}H_{25}NO$ M.Wt 295.42

Solubility Storage $-20^{\circ}C$

General tips For obtaining a higher solubility, please warm the tube at $37^{\circ}C$ and shake it in the ultrasonic bath for a while. Stock solution can be stored below $-20^{\circ}C$ for several months.

Shipping Condition Evaluation sample solution: ship with blue ice. All other available size: ship with RT, or blue ice upon request.

Structure



Background

S1R agonist 1 (Compound 6b) is a selective S1R agonist with K_{is} of 0.93 nM and 72 nM for S1R and S2R, respectively. S1R agonist 1 exhibits neuroprotection against ROS and NMDA-induced neurotoxicity.

S1R agonist 1 (Compound 6b; 0.1-5 μM) significantly increases the nerve growth factor (NGF) induced neurite outgrowth at all the tested concentrations in a dose-dependent manner in PC12 cell

Caution: Product has not been fully validated for medical applications. For research use only.

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lines[1].S1R agonist 1 (24 h) significantly prevents cell damage induced by Rotenone when tested at the concentration of 1 μ M in SHSY5Y cells[1].S1R agonist 1 (0.1-5 μ M; 24 h) demonstrates a neuroprotective effect against NMDA stimuli in SHSY5Y cells[1].S1R agonist 1 (0-10 μ M; 24-72 h) shows no cytotoxicity against A549, LoVo and Panc-1 cells[1].

S1R agonist 1 (Compound 6b; 0.1-50 μ M; 120 h) induces the death of 4 Zebrafish embryos out of 8 at 10 μ M[1].

References:

[1]. Linciano P, et al. Novel S1R agonists counteracting NMDA excitotoxicity and oxidative stress: A step forward in the discovery of neuroprotective agents. Eur J Med Chem. 2023 Mar 5;249:115163.

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