## S1R agonist 1

MedChemExpress

Cat. No.:	HY-149803		
CAS No.:	193354-70-0		
Molecular Formula:	C <sub>20</sub> H <sub>25</sub> NO		
Molecular Weight:	295.42		
Target:	Sigma Receptor		
Pathway:	Neuronal Signaling		
Storage:	Pure form	-20°C	3 years
	In solvent	-80°C	6 months
		-20°C	1 month

DIOLOGICALACTIV					
Description	S1R agonist 1 (Compound 6b) is a selective S1R agonist with K <sub>i</sub> s of 0.93 nM and 72 nM for S1R and S2R, respectively. S1R agonist 1 exhibits neuroprotection against ROS and NMDA-induced neurotoxicity <sup>[1]</sup> .				
IC <sub>50</sub> & Target	Sigma 1 Receptor 0.93 nM (Ki)	Sigma 2 Receptor 72 nM (Ki)			
In Vitro	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 lines <sup>[1]</sup> . S1R agonist 1 (24 h) significantly prevents cell damage induced by Rotenone (HY-B1756) when tested at the concentration 1 μM in SHSY5Y cells <sup>[1]</sup> . S1R agonist 1 (0.1-5 μM; 24 h) demonstrates a neuroprotective effect against NMDA stimuli in SHSY5Y cells <sup>[1]</sup> . S1R agonist 1 (0-10 μM; 24-72 h) shows no cytotoxicity against A549, LoVo and Panc-1 cells <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.				
In Vivo	S1R agonist 1 (Compound 6b; MCE has not independently co	0.1-50 $\mu$ M; 120 h) induces the death of 4 Zebrafish embryos out of 8 at 10 $\mu$ M <sup>[1]</sup> . Onfirmed the accuracy of these methods. They are for reference only.			

## 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.

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

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Product Data Sheet