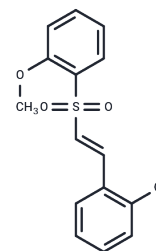


Nrf2-Activator-12G

Chemical Properties

CAS No. :	1554271-18-9
Formula:	C ₁₅ H ₁₃ ClO ₃ S
Molecular Weight:	308.78
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	Nrf2-Activator-12G (compd 12g) is a direct activator of Nrf2 that induces robust expression of Nrf2-dependent antioxidant enzymes at both mRNA and protein levels in dopaminergic neuronal cells, thereby enhancing cellular defense against oxidative stress and providing a mechanistic platform for investigating neuroprotection and disease-modifying strategies in Parkinson's disease research.
Targets(IC50)	Nrf2
In vivo	In mouse models of Parkinson's disease, such as those induced by MPTP neurotoxicity, Nrf2-Activator-12G mitigate oxidative damage and reduce neuroinflammation [1].

Solubility Information

Solubility	DMSO: 80 mg/mL (259.08 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.2386 mL	16.1928 mL	32.3855 mL
5 mM	0.6477 mL	3.2386 mL	6.4771 mL
10 mM	0.3239 mL	1.6193 mL	3.2386 mL
50 mM	0.0648 mL	0.3239 mL	0.6477 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

Woo SY, et al. Discovery of vinyl sulfones as a novel class of neuroprotective agents toward Parkinson's disease therapy. J Med Chem. 2014 Feb 27;57(4):1473-87.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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