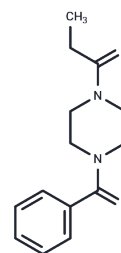


Sunifiram

Chemical Properties

CAS No. :	314728-85-3
Formula:	C ₁₄ H ₁₈ N ₂ O ₂
Molecular Weight:	246.3
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	Sunifiram (DM-235) is a potent nootropic agent, known for enhancing cognitive functions, memory, and learning abilities through modulating neurotransmitter activity, particularly via the AMPA receptor.
Targets(IC50)	iGluR

Solubility Information

Solubility	DMSO: 2.6 mg/mL (10.56 mM), Sonication is recommended. H ₂ O: 50 mg/mL (203 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	4.0601 mL	20.3004 mL	40.6009 mL
5 mM	0.812 mL	4.0601 mL	8.1202 mL
10 mM	0.406 mL	2.030 mL	4.0601 mL
50 mM	0.0812 mL	0.406 mL	0.812 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

- Romanelli M N , Galeotti N , Ghelardini C , et al. Pharmacological Characterization of DM232 (Unifiram) and DM235 (Sunifiram), New Potent Cognition Enhancers[J]. CNS drug reviews, 2006, 12(1):39-52.
- Moriguchi S , Tanaka T , Tagashira H , et al. Novel nootropic drug sunifiram improves cognitive deficits via CaM kinase II and protein kinase C activation in olfactory bulbectomized mice[J]. Behavioural Brain Research, 2013, 242 (Complete):150-157.

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