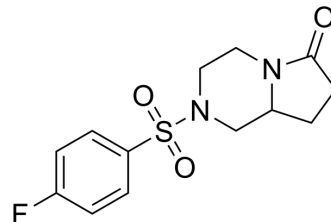


Unifiram

Cat. No.:	HY-125931
CAS No.:	272786-64-8
Molecular Formula:	C ₁₃ H ₁₅ FN ₂ O ₃ S
Molecular Weight:	298.33
Target:	iGluR
Pathway:	Membrane Transporter/Ion Channel; Neuronal Signaling
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 50 mg/mL (167.60 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
			1 mM	3.3520 mL	16.7600 mL	33.5199 mL
			5 mM	0.6704 mL	3.3520 mL	6.7040 mL
			10 mM	0.3352 mL	1.6760 mL	3.3520 mL
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (8.38 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (8.38 mM); Clear solution					
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (8.38 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	Unifiram (DM232) acts as a potent cognition enhancer through the activation of the AMPA-mediated neurotransmission system. Unifiram (DM232) has the potential for amnesia prevention and neurodegenerative disorder research ^{[1][2]} .
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REFERENCES

[1]. Elisabetta Martini, et al. Design, synthesis and preliminary pharmacological evaluation of new analogues of DM232 (unifiram) and DM235 (sunifiram) as cognition modulators. *Bioorg Med Chem.* 2008 Dec 1;16(23):10034-42.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA