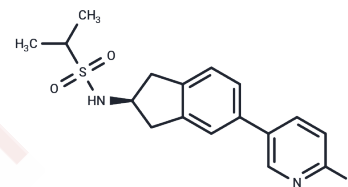


UoS 12258

## Chemical Properties

CAS No. : 875927-64-3  
Formula: C17H19FN2O2S  
Molecular Weight: 334.41  
Storage: Store at low temperature  
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	UoS 12258 is a selective and efficient AMPA receptor positive allosteric modulator, reversing acute and subacute drug-induced deficits in rat novel object recognition, used to study cognitive disorders.
Targets(IC50)	iGluR
In vitro	UoS 12258 is a selective, positive allosteric regulator of AMPA receptors. In the natural heterooligomeric AMPA receptor in rats, UoS 12258 showed a minimum effective concentration of about 10 nM in vitro and enhanced AMPA receptor-mediated synaptic transmission at an estimated free brain concentration of about 15 nM in vivo. [1]
In vivo	UoS 12258 (0.03 mg/kg to 0.3 mg/kg) reversed delayed induction deficits in new object recognition in rats after acute and subchronic administration. [1]

## Solubility Information

Solubility	DMSO: 100 mg/mL (299.03 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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### Preparing Stock Solutions

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	1mg	5mg	10mg
1 mM	2.9903 mL	14.9517 mL	29.9034 mL
5 mM	0.5981 mL	2.9903 mL	5.9807 mL
10 mM	0.299 mL	1.4952 mL	2.9903 mL
50 mM	0.0598 mL	0.299 mL	0.5981 mL

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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

Ward SE, et al. Pharmacological characterization of N-[(2S)-5-(6-fluoro-3-pyridinyl)-2,3-dihydro-1H-inden-2-yl]-2-propanesulfonamide: a novel, clinical AMPA receptor positive allosteric modulator. *Br J Pharmacol.* 2017 Mar; 174(5):370-385.

Azmanova M, et al. Schizophrenia: synthetic strategies and recent advances in drug design. *Medchemcomm.* 2018 Mar 16;9(5):759-782.

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