

**Product Name:** UoS 12258

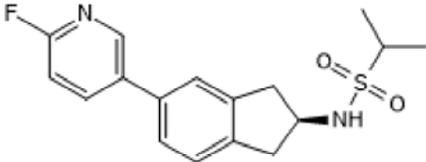
**Catalog No.:** 6353

**Batch No.:** 1

CAS Number: 875927-64-3

IUPAC Name: *N*-[(2*S*)-5-(6-Fluoro-3-pyridinyl)-2,3-dihydro-1*H*-inden-2-yl]-2-propanesulfonamide

## 1. PHYSICAL AND CHEMICAL PROPERTIES

<b>Batch Molecular Formula:</b>	C <sub>17</sub> H <sub>19</sub> FN <sub>2</sub> O <sub>2</sub> S
<b>Batch Molecular Weight:</b>	334.41
<b>Physical Appearance:</b>	Off White solid
<b>Solubility:</b>	DMSO to 100 mM ethanol to 20 mM with gentle warming
<b>Storage:</b>	Store at -20°C
<b>Batch Molecular Structure:</b>	

## 2. ANALYTICAL DATA

<b>TLC:</b>	R <sub>f</sub> = 0.3 (Ethyl acetate:Petroleum ether [1:3])
<b>HPLC:</b>	Shows 99.9% purity
<b>Chiral HPLC:</b>	Shows 99.4% purity
<b><sup>1</sup>H NMR:</b>	Consistent with structure
<b>Mass Spectrum:</b>	Consistent with structure
<b>Microanalysis:</b>	

	Carbon	Hydrogen	Nitrogen
Theoretical	61.06	5.73	8.38
Found	61	5.73	8.4

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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**Description:**

Positive allosteric modulator of AMPA receptors ( $pEC_{50} = 5.2$  for potentiation of AMPA-mediated currents in vitro). Also potentiates AMPA-mediated synaptic responses in vivo. Improves performance of rats in various learning and memory paradigms

**Physical and Chemical Properties:**

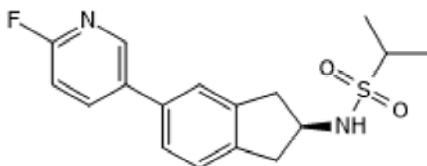
Batch Molecular Formula:  $C_{17}H_{19}FN_2O_2S$

Batch Molecular Weight: 334.41

Physical Appearance: Off White solid

**Minimum Purity:** >98%

**Batch Molecular Structure:**



**Storage:** Store at -20°C

**Solubility & Usage Info:**

DMSO to 100 mM

ethanol to 20 mM with gentle warming

**Stability and Solubility Advice:**

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

**SOLIDS:** Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

**SOLUTIONS:** We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

**References:**

**Ward et al** (2017) Pharmacological characterization of *N*-[(2*S*)-5-(6-fluoro-3-pyridinyl)-2, 3-dihydro-1*H*-inden-2-yl]-2-propanesulfonamide: a novel, clinical AMPA receptor positive allosteric modulator. *Br.J.Pharmacol.* **174** 370. PMID: 28009436.

**Ward et al** (2010) Discovery of *N*-[(2*S*)-5-(6-fluoro-3-pyridinyl)-2,3-dihydro-1*H*-inden-2-yl]-2-propanesulfonamide, a novel clinical AMPA receptor positive modulator. *J.Med.Chem.* **53** 5801. PMID: 20614889.

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