

Product Name: TASP 0433864

Catalog No.: 5362

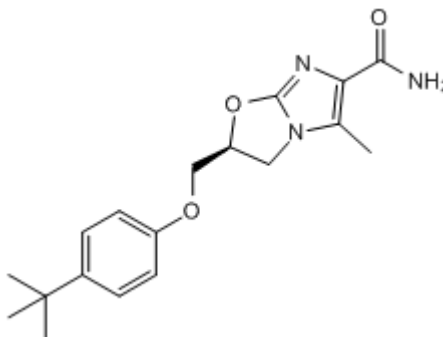
Batch No.: 1

CAS Number: 1431980-60-7

IUPAC Name: (2S)-2-[[4-(1,1-Dimethylethyl)phenoxy]methyl]-2,3-dihydro-5-methylimidazo[2,1-b]oxazole-6-carboxamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₈H₂₃N₃O₃
Batch Molecular Weight: 329.39
Physical Appearance: White solid
Solubility: DMSO to 100 mM
 ethanol to 20 mM
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.4 (Dichloromethane:Methanol [93:7])
HPLC: Shows 99.9% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Optical Rotation: [α]_D = +39.8 (Concentration = 1, Solvent = Methanol)
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	65.63	7.04	12.76
Found	65.51	7.16	12.63

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

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Description:

Selective mGlu₂ receptor positive allosteric modulator (EC₅₀ values are 199 and 206 nM for human and rat receptors, respectively). Exhibits negligible activity against a range of neurotransmitter targets, except 5-HT_{2B} and MAO-B (72 and 92% inhibition at 10 μM, respectively). Potentiates inhibitory effect of DCG IV (Cat. No. 0975) on excitatory postsynaptic potentials in hippocampal slices and ketamine- and methamphetamine-induced increases in locomotor activity in rats and mice.

Physical and Chemical Properties:

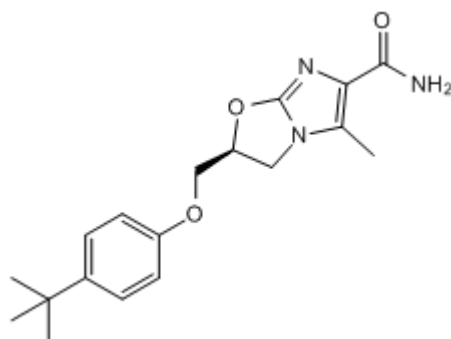
Batch Molecular Formula: C₁₈H₂₃N₃O₃

Batch Molecular Weight: 329.39

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



References:

Hiyoshi et al (2014) Neurophysiologic and antipsychotic profiles of TASP0433864, a novel positive allosteric modulator of metabotropic glutamate 2 receptor. *J.Pharmacol.Exp.Ther.* **351** 642. PMID: 25277141.

Storage: Store at +4°C

Solubility & Usage Info:

DMSO to 100 mM
ethanol to 20 mM

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.

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