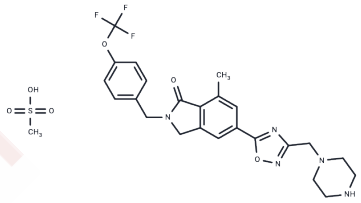
Data Sheet (Cat.No.T10432L)

TargetMol

AZD-8529 mesylate

Chemical Properties



CAS No. : 1314217-69-0

Formula: C25H28F3N5O6S

Molecular Weight: 583.58

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	AZD-8529 mesylate is a highly selective, and orally bioavailable positive allosteric modulator of mGluR2 (EC50: 285 nM). It shows no positive allosteric modulator responses at 20-25 M on the mGluR1, 3, 4, 5, 6, 7, and 8 subtypes.
Targets(IC50)	GluR
In vitro	AZD-8529 potentiates the effects of glutamate at mGluR2 (EC50: 195 nM). It does not elicit antagonist responses on mGluRs at 25 μM.
In vivo	AZD-8529 (30 mg/kg; i.p.) decreases the increased extracellular dopamine induced by nicotine in accumbens shell of freely-moving rats. AZD-8529 (0.3-mg/kg, i.m.) reduces nicotine priming-induced and cue-induced reinstatement in squirrel monkeys.

Solubility Information

Solubility	DMSO: 41.67 mg/mL (71.4 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (3.43 mM),Sonication is recommended. *Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.7136 mL	8.5678 mL	17.1356 mL
5 mM	0.3427 mL	1.7136 mL	3.4271 mL
10 mM	0.1714 mL	0.8568 mL	1.7136 mL
50 mM	0.0343 mL	0.1714 mL	0.3427 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

Justinova Z, et al. The Novel Metabotropic Glutamate Receptor 2 Positive Allosteric Modulator, AZD8529, Decreases Nicotine Self-Administration and Relapse in Squirrel Monkeys. Biol Psychiatry. 2015 Oct 1;78(7):452-62.