JNJ-42153605

Catalog No.C12060 Batch:C1206003

Product Datasheet

Technical Data

Formula	$C_{22}H_{23}F_3N_4$					
Molecular Weight	400.44	**CAS No.**	1254977-87-1			
Solubility (25°C)*	In vitro	Ethanol	10 mg/mL (24.97 mM)			
		DMSO	4 mg/mL (9.98 mM)			
		Water	Insoluble			
	In vivo (Add solvents to the product individually and in order)	Oral Administration	Homogeneous suspension	CMC-NA	≥5mg/ml	Taking the 1 mL working solution as an example, add 5 mg of this product to 1 ml of CMC-Na solution, mix evenly to obtain a homogeneous suspension with a final concentration of 5 mg/ml.

* <1 mg/ml means slightly soluble or insoluble.
* Please note that Capsid Bio tests the solubility of all compounds in-house, and the actual solubility may differ slightly from published values. This is normal and is due to slight batch-to-batch variations.
* Room temperature shipping (Stability testing shows this product can be shipped at 2-8°C for storage purposes.)

Preparing Stock Solutions

Concentration \ Volume \ Mass	1 mg	5 mg	10 mg
1 mM	2.4973 mL	12.4863 mL	24.9725 mL
5 mM	0.4995 mL	2.4973 mL	4.9945 mL
10 mM	0.2497 mL	1.2486 mL	2.4973 mL
50 mM	-	-	-

Biological Activity

Description	JNJ-42153605 is a potent and selective **mGlu2 receptor** positive allosteric modulator with an EC50 of 17 nM.
Targets	mGlu2 receptor [1] 17 nM(EC50)
In vitro	JNJ-42153605 is found to not have agonist or antagonist activity toward other mGlu receptor subtypes up to 30 μM (>50-fold vs mGluR2) and this compound also shows no or negligible affinity or activity at any of the targets in the CEREP panel of receptors (>100-fold selectivity for mGlu2 receptor)[1].
In vivo	In mice, JNJ-42153605 dose-dependently and significantly attenuates the increase in locomotor activity induced by phencyclidine (PCP, 5 mg/kg sc) with an ED50 of 5.4 mg/kg sc. This compound shows a rapid rate of absorption from the gastrointestinal tract, reaching the maximal concentration after 0.5 h. Clearance in vivo is moderate to high in both rat and dog (35 and 29 mL/min/kg, respectively). Elimination halflives are on the shorter side across the species, being 2.7 h in rat and 0.8−1.1 h in dog. Volume of distribution is slightly higher than total body water, indicating distribution outside the plasma. Bioavailability is low to moderate across the species (35% in rat and 18−33% in dog)[1].

References

https://pubmed.ncbi.nlm.nih.gov/23072213/

RETURN POLICY

Capsid Bio's Unconditional Return Policy ensures a smooth online shopping experience for our customers. If you are in any way unsatisfied with your purchase, you may return any item(s) within 7 days of receiving it. In the event of product quality issues, either protocol related or product related problems, you may return any item(s) within 365 days from the original purchase date. Please follow the instructions below when returning products.

SHIPPING & STORAGE

Capsid Bio products are transported at room temperature. If you receive the product at room temperature, please rest assured, the Capsid Bio Quality Inspection Department has conducted experiments to verify that the normal temperature placement of one month will not affect the biological activity of powder products. After collecting, please store the product according to the requirements described in the datasheet. Most Capsid Bio products are stable under the recommended conditions.

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