GLPG1837

Catalog No.C13600 Batch:C1360003

Product Datasheet

Technical Data

Formula	$C_{16}H_{20}N_4O_3S$					
Molecular Weight	348.42	**CAS No.**	1654725-02-6			
Solubility (25°C)*	In vitro	DMSO	69 mg/mL (198.03 mM)			
		Ethanol	5 mg/mL (14.35 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	2.8701 mL	14.3505 mL	28.7010 mL
5 mM	0.5740 mL	2.8701 mL	5.7402 mL
10 mM	0.2870 mL	1.4350 mL	2.8701 mL
50 mM	0.0574 mL	0.2870 mL	0.5740 mL

Biological Activity

Description	GLPG1837 (ABBV-974) is a novel **CFTR** potentiator with an EC50 value of 3 nM for F508del, showing enhanced efficacy on CFTR mutants harboring class III mutations compared to Ivacaftor.
Targets	CFTR(F508del) [1] — 3 nM(EC50); CFTR(G551D) [1] — 339 nM(EC50)
In vitro	GLPG1837 has an attractive in vitro ADME profile, showing low Clint,unb in both microsomal and hepatocytes stability assays, good permeability, and no off-target inhibition of CYPs and the hERG channel[1].
In vivo	The pharmacokinetic profile of GLPG1837 is attractive, showing a low Cl,unb and good F% in both rat and dog. The CL (L/h/kg) of this compound after intravenous injection of 1 mg/kg dose are 1.92 and 0.32 in rats and dogs, respectively. $T_{1/2}$ is 1.84 h in rats while 3 h in dogs. After 5 mg/kg p.o, the oral availability of this chemical in rat is 67%. In dogs, F%>100[1].

References

https://pubmed.ncbi.nlm.nih.gov/29148763/

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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