Itanapraced (CHF 5074)

Catalog No.C12605 Batch:C1260503

Product Datasheet

Technical Data

Formula	$C_{16}H_{11}Cl_2FO_2$					
Molecular Weight	325.16	**CAS No.**	749269-83-8			
Solubility (25°C)*	In vitro	DMSO	65 mg/mL (199.9 mM)			
		Ethanol	12 mg/mL (36.9 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	3.0754 mL	15.3770 mL	30.7541 mL
5 mM	0.6151 mL	3.0754 mL	6.1508 mL
10 mM	0.3075 mL	1.5377 mL	3.0754 mL
50 mM	0.0615 mL	0.3075 mL	0.6151 mL

Biological Activity

Description	Itanapraced (CHF 5074, CSP-1103) is a **gamma-secretase** modulator that reduces Aβ42 and Aβ40 secretion. The IC50s of CHF5074 for inhibition of COX-1 and COX-2 is above 100 μmol/L.
Targets	gamma-secretase [1]
In vitro	In human neuroglioma cells over-expressing the Swedish mutated APP [human neuroglioma cell line expressing APPswe (H4swe)], CHF5074 preferentially lowers Aβ42 secretion with an IC50 of 3.6 μmol/L. CHF5074 does not display inhibitory activity on COX-1 and COX-2 enzymes when employed at concentrations up to 100 μmol/L and 300 μmol/L respectively[1].
In vivo	In rats, CHF5074 is orally well absorbed (50%) and is slowly eliminated from plasma (t1/2 ≈ 20 h). In Tg2576 transgenic mice, chronic treatment with CHF5074 markedly reduces brain Aβ burden without histological signs of peripheral Notch-mediated toxicity[1].

References

https://pubmed.ncbi.nlm.nih.gov/19239474/

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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EU Headquarters
Gajeva ulica 28, HR-10000 Zagreb, Croatia

US Headquarters
12222 Merit Dr STE 130 Dallas, Texas, 75251

UK Headquarters
121 ABILITY HOUSE, BROOKER ROAD, EN9 1JH, ESSEX

Orders: Sales@capsidbio.com
Enquiries: info@capsidbio.com
www.capsidbio.com