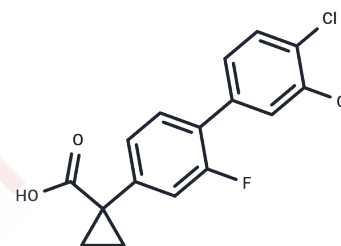


Itanapraced

Chemical Properties

CAS No. :	749269-83-8
Formula:	C ₁₆ H ₁₁ Cl ₂ FO ₂
Molecular Weight:	325.16
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	Itanapraced (CHF5074), a γ -secretase modulator, reduces A β 42/40 secretion (IC ₅₀ : 3.6 /18.4 μ M).
Targets(IC ₅₀)	Apoptosis, Beta Amyloid, Gamma-secretase
Kinase Assay	GSK-3 β activity assay: IC ₅₀ of new synthesised compound IM-12 to GSK-3 β is determined by a luminometric GSK-3 β activity assay. Briefly, compounds are tested in different concentrations diluted in assay buffer containing final concentrations of: 4 mM MOPS pH 7.2; 0.4 mM EDTA; 1 mM EGTA; 2.5 mM β -glycerophosphate; 4 mM MgCl ₂ ; 40 μ M BSA; 0.05 mM DTT. Four microlitres of diluted compounds are added to 25 μ M pGS-2 peptide substrate, 20 ng recombinant GSK-3 β and 1 μ M ATP to a total assay volume of 40 μ l. The enzymatic reaction is stopped after 30 min of incubation at 30 °C by adding 40 μ l KinaseGlo. The luminometric signal is allowed to stabilise for 10 min and the measured with a Glomax ² 96 Microplate Luminometer.

Solubility Information

Solubility	DMSO: 50 mg/mL (153.77 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 2.5 mg/mL (7.69 mM), Sonication is recommended. <i>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.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.0754 mL	15.377 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

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

Imbimbo BP, et al. J Pharmacol Exp Ther. 2007 Dec;323(3):822-30. 2. Ronsisvalle N, et al. Curr Alzheimer Res. 2014; 11(7):714-24.

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