

MK-0686

Chemical Properties

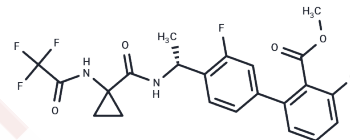
CAS No. : 578727-68-1

Formula: C₂₂H₁₉ClF₄N₂O₄

Molecular Weight: 486.84

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	MK-0686 is an orally available bradykinin B1 receptor antagonist with potential anti-inflammatory activity.
Targets(IC50)	Bradykinin Receptor

Solubility Information

Solubility	DMSO: 50 mg/mL (102.7 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.0541 mL	10.2703 mL	20.5406 mL
5 mM	0.4108 mL	2.0541 mL	4.1081 mL
10 mM	0.2054 mL	1.027 mL	2.0541 mL
50 mM	0.0411 mL	0.2054 mL	0.4108 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

Tang C, Carr BA, Poignant F, Ma B, Polsky-Fisher SL, Kuo Y, Strong-Basalyga K, Norcross A, Richards K, Eisenhandler R, Carlini EJ, Di Marco CN, Kuduk SD, Yu NX, Raab CE, Rushmore T, Frederick CB, Bock MG, Prueksaritanont T. CYP2C75-involved autoinduction of metabolism in rhesus monkeys of methyl 3-chloro-3'-fluoro-4'-{(1R)-1-[(1-[(trifluoroacetyl)amino]cyclopropyl)carbonyl]amino]ethyl}-1,1'-biphenyl-2-carboxylate (MK-0686), a bradykinin B1 receptor antagonist. *J Pharmacol Exp Ther*. 2008 Jun;325(3):935-46.

Kuduk SD, et al. Development of orally bioavailable and CNS penetrant biphenylaminocyclopropane carboxamide bradykinin B1 receptor antagonists. *J Med Chem*. 2007 Jan 25;50(2):272-82.

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