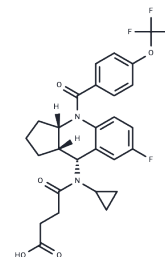


MK-8318

Chemical Properties

CAS No. : 1416581-40-2
 Formula: C₂₇H₂₆F₄N₂O₅
 Molecular Weight: 534.5
 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-8318 is an effective and selective antagonist of the CRTh2 receptor (K _i : 5.0 nM).
Targets(IC50)	Others, Prostaglandin Receptor
In vitro	MK-8318 suppresses β-arrestin, cAMP, CYP3A4, CYP2C9, and CYP2D6 (IC ₅₀ s: 3.5±2.1 nM, 8.0±6.8 nM, 50 μM, 50 μM and 50 μM).
In vivo	MK-8318 demonstrates 76% efficacy in late airway response (LAR) and 114% efficacy in airway hyperresponsiveness (AHR) by blocking LAR and AHR after intravenous infusion at 1 mg/kg in a sheep model. It also exhibits good efficacy on BAL cells/pulmonary function in ovalbumin-sensitized and -challenged Brown Norway rats at 3, 10, and 30 mg/kg oral dosing.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.8709 mL	9.3545 mL	18.7091 mL
5 mM	0.3742 mL	1.8709 mL	3.7418 mL
10 mM	0.1871 mL	0.9355 mL	1.8709 mL
50 mM	0.0374 mL	0.1871 mL	0.3742 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

Huang X, et al. Discovery of MK-8318, a Potent and Selective CRTh2 Receptor Antagonist for the Treatment of Asthma. ACS Med Chem Lett. 2018 Jun 23;9(7):679-684.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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