

MK-2894

Chemical Properties

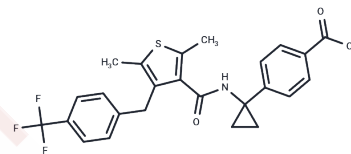
CAS No. : 1006036-87-8

Formula: C₂₅H₂₂F₃N₃O₃S

Molecular Weight: 473.51

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-2894 is a prostaglandin receptor 4 antagonist. MK-2894 has anti-inflammatory activity and may be used in the study of inflammation.
Targets(IC50)	Prostaglandin Receptor

Solubility Information

Solubility	DMSO: 50 mg/mL (105.59 mM), Sonication is recommended. H ₂ O: < 1 mg/mL (Insoluble) (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (4.22 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	2.1119 mL	10.5594 mL	21.1189 mL
5 mM	0.4224 mL	2.1119 mL	4.2238 mL
10 mM	0.2112 mL	1.0559 mL	2.1119 mL
50 mM	0.0422 mL	0.2112 mL	0.4224 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

Blouin M, et al. The discovery of 4-{1-[(2,5-dimethyl-4-[4-(trifluoromethyl)benzyl]-3-thienyl)carbonyl]amino}cyclopropyl}benzoic acid (MK-2894), a potent and selective prostaglandin E2 subtype 4 receptor antagonist. J Med Chem. 2010 Mar 11;53(5):2227-38.

Tijana Markovič, et al. Structural features of subtype-selective EP receptor modulators. Drug Discov Today. 2017 Jan;22(1):57-71.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel: 781-999-4286 E_mail: info@targetmol.com Address: 34 Washington Street, Wellesley Hills, MA 02481