

MF-766

Chemical Properties

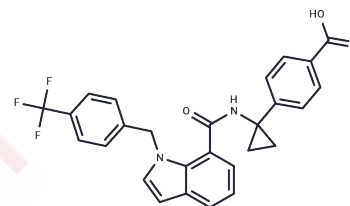
CAS No. : 1050656-06-8

Formula: C₂₇H₂₁F₃N₂O₃

Molecular Weight: 478.46

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	MF-766 is a highly potent, selective, and orally active EP4 antagonist with a K_i of 0.23 nM, acting as a full antagonist with an IC_{50} of 1.4 nM (shifted to 1.8 nM in the presence of 10% HS) in the functional assay. It is useful for cancer and inflammation diseases research [1][2].
Targets(IC_{50})	Prostaglandin Receptor
In vitro	MF-766, at concentrations ranging from 0.01 to 10 μ M and pretreated for 1 hour before being stimulated with 50 ng/mL IL-2—both with and without 0.33 μ M PGE2 for 18 hours—effectively reverses the suppression of IFN- γ secretion in human NK cells caused by PGE2. Importantly, the viability of NK cells remains unaffected by MF-766[2].
In vivo	MF-766 (oral gavage; 30 mg/kg; once daily; 21 days) exhibits TGI% of 49% in CT26 tumor model. But it does not exhibit significant difference in EMT6 and 4T1 tumor model[2]. MF-766 (oral gavage; 30 mg/kg combination with anti-PD-1 mDX400; once daily; 21 days; q4dx8) shows potent anti-tumor activities in different preclinical models. The % of

Solubility Information

Solubility	DMSO: 60 mg/mL (125.4 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 (5.23 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	2.090 mL	10.4502 mL	20.9004 mL
5 mM	0.418 mL	2.090 mL	4.1801 mL
10 mM	0.209 mL	1.045 mL	2.090 mL
50 mM	0.0418 mL	0.209 mL	0.418 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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

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