

HW201877

Chemical Properties

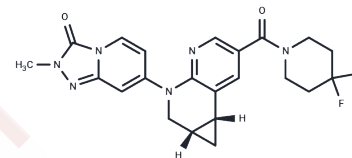
CAS No. : 2927452-83-1

Formula: C22H22F2N6O2

Molecular Weight: 440.45

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	HW201877 is a potent, orally active inhibitor of 15-prostaglandin dehydrogenase (15-PGDH), with an IC50 value of 3.6 nM. It significantly increases PEG2 levels in A549 cells and demonstrates notable efficacy in animal models of tissue injury and fibrosis. HW201877 is utilized in research for inflammatory bowel disease (IBD), idiopathic pulmonary fibrosis (IPF), and Crohn's disease (CD).
Targets(IC50)	Dehydrogenase
In vitro	HW 201877 has demonstrated good microsomal stability in liver microsomes across various species (human, rat, dog, mouse) and inhibits seven major cytochrome P450 isoforms (CYP 1A2, 2B6, 2C8, 2C9, 2C19, 2D6, and 3A), with IC50 values exceeding 150 μM. Additionally, HW 201877 increases PEG2 levels by 4.8 times relative to its counterpart, indicating significant pharmacological efficacy.
In vivo	HW201877, administered orally at doses of 0.5-2 mg/kg twice daily for 21 days, effectively slows the progression of pulmonary fibrosis in rat models. Additionally, HW201877 at 2.5-5 mg/kg (p.o., twice daily for 10 days) markedly alleviates pathological symptoms in DSS-induced ulcerative colitis mouse models and shows significant therapeutic effects on pathological manifestations in rat models of Crohn's disease.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.2704 mL	11.352 mL	22.7041 mL
5 mM	0.4541 mL	2.2704 mL	4.5408 mL
10 mM	0.227 mL	1.1352 mL	2.2704 mL
50 mM	0.0454 mL	0.227 mL	0.4541 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

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