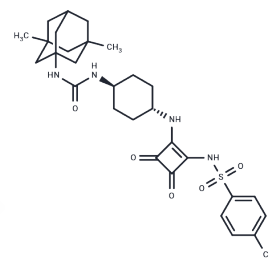


sEH-IN-21

Chemical Properties

CAS No. : 3084814-46-7
 Formula: C30H40N4O5S
 Molecular Weight: 568.73
 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	sEH-IN-21 is an orally active inhibitor of sEH, exhibiting IC50 values of 0.1 nM for both hsEH and msEH. It significantly suppresses the NF-κB signaling pathway. sEH-IN-21 demonstrates potent anti-inflammatory activity by reducing IL-6 and TNF-α release and maintaining intestinal barrier integrity. It is applicable in research on inflammatory bowel disease (IBD).
Targets(IC50)	NF-κB, Epoxide Hydrolase, Interleukin, TNF
In vitro	sEH-IN-21 (Compound A1) exhibits good metabolic stability in mouse liver microsomes, with a half-life of 13.51 minutes, and has a plasma protein binding rate of 96.2%.
In vivo	sEH-IN-21 (Compound A1), administered orally at doses of 25-100 mg/kg for 10 days, exhibits anti-inflammatory properties by enhancing intestinal mucosal barrier function, thereby reducing the severity of DSS-induced acute colitis in mice. Additionally, sEH-IN-21 is well-tolerated and demonstrates high safety at a dose of 1 g/kg over a 7-day intragastric administration in mice.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.7583 mL	8.7915 mL	17.583 mL
5 mM	0.3517 mL	1.7583 mL	3.5166 mL
10 mM	0.1758 mL	0.8792 mL	1.7583 mL
50 mM	0.0352 mL	0.1758 mL	0.3517 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