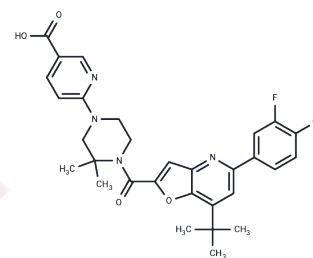


I-287

Chemical Properties

CAS No. :	2014368-93-3
Formula:	C30H30ClFN4O4
Molecular Weight:	565.04
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	I-287 is a selective, orally active PAR2 inhibitor that functions as a negative allosteric modulator of Gαq and Gα12/13 activity and their downstream effectors. It has been shown to attenuate Complete Freund's adjuvant-induced inflammation in mice, suggesting its utility in inflammation/immunology research [1].
Targets(IC50)	ERK,Others,Protease-activated Receptor
In vitro	I-287 (0-60 μM; 15-30 minutes) inhibits PAR2-mediated activation of Gαq and Gα12/13 proteins in HEK-293 cells without affecting Gi/o proteins and does not impact β-arrestin 2 recruitment or receptor internalization [1]. Additionally, I-287 (0-60 μM; 15-30 minutes) suppresses PAR2-mediated ERK1/2 activation [1]. At 10 μM for 30 minutes, I-287 also inhibits PAR2-induced IL-8 secretion in HCT-116 and A549 cells [1].
In vivo	I-287 (orally administered at a dosage of 50 mg/kg) reduced the inflammatory response induced by Complete Freund's adjuvant in C57BL/6J mice [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.7698 mL	8.8489 mL	17.6979 mL
5 mM	0.354 mL	1.7698 mL	3.5396 mL
10 mM	0.177 mL	0.8849 mL	1.7698 mL
50 mM	0.0354 mL	0.177 mL	0.354 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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