

BMS-986449

Chemical Properties

CAS No. :

Formula: C₂₁H₂₁FN₄O₃

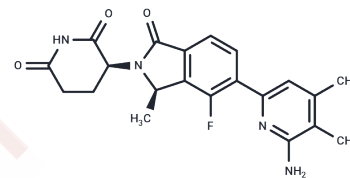
Molecular Weight: 396.42

Keep away from moisture

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	BMS-986449 is an IKZF2 (Helios)/IKZF4 (Eos) degrader and CELMoD molecular glue. It redirects the interaction between the E3 ubiquitin ligase Cereblon and Helios/Eos in primary Treg cells, inducing their degradation, and may be utilised for anti-tumour immunotherapy.
Targets(IC50)	Molecular Glues,IKZF
In vitro	When primary human Treg cells were co-cultured with BMS-986449 under activating conditions, transcriptional phenotype reprogramming was observed on day 8 of culture: the protein expression levels of effector molecules (such as Granzyme B) were increased, and inflammatory gene transcripts were highly expressed [1].
In vivo	In tumor-bearing hCRBN-KI mice (humanized CRBN knock-in mice), daily administration of BMS-986449 as a monotherapy exhibited antitumor activity in the three tumor models (CT26, MB49, and MC38), with tumor growth inhibition (TGI) rates reaching 75%, 62%, and 42%, respectively. When BMS-986449 was used in combination with anti-PD-1 immune checkpoint blockade therapy, the therapeutic efficacy was further enhanced, and the TGI rates in the aforementioned three tumor models reached 95%, 97%, and 92%, respectively [1]. In cynomolgus monkeys, daily administration of BMS-986449 (at a dose of 0.1 mg/kg) maintained a degradation rate of Helios in circulating Treg cells at over 80% [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.5226 mL	12.6129 mL	25.2258 mL
5 mM	0.5045 mL	2.5226 mL	5.0452 mL
10 mM	0.2523 mL	1.2613 mL	2.5226 mL
50 mM	0.0505 mL	0.2523 mL	0.5045 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

Barnes M J. Selective degradation of Helios induces Treg cell reprogramming and enhanced antitumor immunity[J]. Cancer Research, 2025, 85(8_Supplement_1): 2249-2249.

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