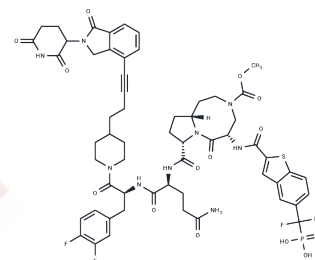


SD-436

Chemical Properties

CAS No. : 2497585-50-7
 Formula: C58H62F4N9O14PS
 Molecular Weight: 1248.2
 Storage: Store at low temperature
 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	SD-436 is a selective and highly efficient STAT3 PROTAC degrader (DC50 = 0.5 μ M), with an IC50 of 19 nM for STAT3, significantly higher than for STAT1/4/5/6. SD-436 depletes STAT3 and induces tumour regression in mouse leukaemia and lymphoma xenograft models.
Targets(IC50)	STAT,PROTACs
In vitro	Methods: Human PBMC, SU-DHL-1, and MOLM-16 cell lines were treated with SD-436 (0.1 nM-40 μ M, 20 h), and the expression level of STAT3 protein in the cells was detected by Western blot. Results: SD-436 could reduce the level of STAT3 protein in human PBMC, SU-DHL-1, and MOLM-16 cell lines. [1]
In vivo	SD-436 (5-25 mg/kg, intravenous) was used to treat mice bearing leukemia and lymphoma xenografts and was found to exhibit antitumor activity in mice. [1]

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.8012 mL	4.0058 mL	8.0115 mL
5 mM	0.1602 mL	0.8012 mL	1.6023 mL
10 mM	0.0801 mL	0.4006 mL	0.8012 mL
50 mM	0.016 mL	0.0801 mL	0.1602 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

Xu, et al. Discovery of SD-436: A Potent, Highly Selective and Efficacious STAT3 PROTAC Degradator Capable of Achieving Complete and Long-Lasting Tumor Regression. Journal of medicinal chemistry. 2024, 67(22), 20495-20513.

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