

SD-36 TFA

Chemical Properties

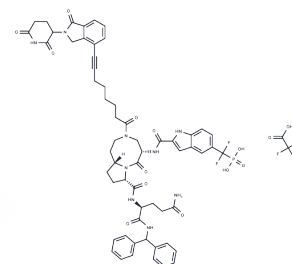
CAS No. :

Formula: C61H63F5N9O14P

Molecular Weight: 1272.17

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	SD-36 TFA is a selective and highly efficient STAT3 degrader with a Kd value of about 50 nM. SD-36 has anticancer and antitumor activity, and can break down mutant STAT3 proteins in cells and inhibit STAT3 transcription. SD-36 promotes growth inhibition and induces apoptosis through inhibition of Mcl-1 in gliomas.
Targets(IC50)	Apoptosis, STAT
In vitro	SD-36 inhibits the growth of a subset of acute myeloid leukemia and anaplastic large-cell lymphoma cell lines by inducing cell-cycle arrest and/or apoptosis; SD-36 (0.005-5 μM; 4 days) demonstrates potent activity (IC50 < 2 μM) in MOLM-16, DEL, Karpas-299, K1-JK, SU-DHL-1, SUP-M2 cell lines[1]; SD-36 (1 μM; 5 hours) completely depletes both monomeric and dimeric STAT3 protein in MOLM-16 cells[1].

Solubility Information

Solubility	DMSO: 150 mg/mL (117.91 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 10 mg/mL (7.86 mM), Solution. 10% DMSO+90% Saline: < 10 mg/mL (7.86 mM), Lower concentrations may be soluble, but exact solubility limit is unknown. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.7861 mL	3.9303 mL	7.8606 mL
5 mM	0.1572 mL	0.7861 mL	1.5721 mL
10 mM	0.0786 mL	0.393 mL	0.7861 mL
50 mM	0.0157 mL	0.0786 mL	0.1572 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

Bai L, et al. A Potent and Selective Small-Molecule Degradator of STAT3 Achieves Complete Tumor Regression In Vivo. *Cancer Cell*. 2019 Nov 11;36(5):498-511.e17.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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