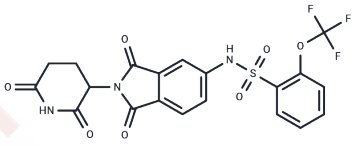
Data Sheet (Cat.No.T41257)

SJ6986

Chemical Properties



CAS No. :	2765625-93-0
Formula:	C20H14F3N3O7S
Molecular Weight:	497.4
Storage:	Keep away from direct sunlight 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	SJ6986 is a potent, selective, and orally active GSPT1/2 degrader, effectively degrading GSPT1 with a DC50 of 2.1 nM (D max 99%) [1].
Targets(IC50)	Others,Molecular Glues
In vitro	SJ6986 demonstrates potency with EC50 values at 1.5 nM, 0.4 nM, 726 nM, 336 nM, and 3583 nM in the MV4-11, MHH-CALL-4, MB002, MB004, and HD-MB03 cell lines respectively [1]. In MV4-11 cells, under conditions of a 0-100 μM concentration range and a 3-day incubation, an EC50 of 1.5 nM was observed, indicating significant inhibition of cell proliferation [1]. Additionally, Western Blot analysis in the same cell line, with a concentration range of 0-10 μM over 4 and 24 hours, revealed a dose- and time-dependent reduction in GSPT1 protein levels, further confirming the compound's efficacy [1].
In vivo	SJ6986 shows t 1/2 of 3.44 h by intravenous injection of 3 mg/kg and t max of 0.25 h by oral administration (%F = 84) of 10 mg/kg in CD1 mice [1].

Solubility Information

Solubility	DMSO: 250 mg/mL (502.61 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Saline: < 10 mg/mL (20.1 mM),Lower concentrations may be soluble, but exact solubility limit is unknown. 10% DMSO+40% PEG300+5% Tween 80+45% Saline: 10 mg/mL (20.1 mM),Solution. *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.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.0105 mL	10.0523 mL	20.1045 mL
5 mM	0.4021 mL	2.0105 mL	4.0209 mL
10 mM	0.201 mL	1.0052 mL	2.0105 mL
50 mM	0.0402 mL	0.201 mL	0.4021 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

Nishiguchi G, et al. Identification of Potent, Selective, and Orally Bioavailable Small-Molecule GSPT1/2 Degraders from a Focused Library of Cereblon Modulators. J Med Chem. 2021 Jun 10;64(11):7296-7311.