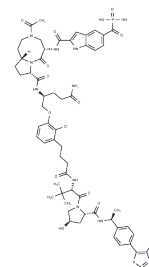


KT-333

Chemical Properties

CAS No. : 2502186-79-8
Formula: C₆₀H₇₄ClN₁₀O₁₄PS
Molecular Weight: 1257.78
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	KT-333 is a potent, highly selective, heterobifunctional small molecule degrader of STAT3 for the treatment of a variety of STAT3-dependent pathologies, including hematologic malignancies and solid tumors. KT-333 specifically binds to STAT3 proteins at one end of the spectrum, and binds to the E3 ubiquitin ligase, VHL, at the other end.
Targets(IC50)	STAT, Molecular Glues
In vitro	KT-333 is a PROTAC targeting STAT3 with a VHL-dependent mechanism that is in Phase 1a/1b trials for the treatment of multiple diseases, including R/R B-cell and T-cell lymphomas, classical Hodgkin lymphoma (cHL), solid tumors (ST), and large granular lymphocytic leukemia/T-cell prolymphocytic leukemia (LGL-L/T-PLL).[1]
In vivo	KT-333 ammonium, administered intravenously at doses of 5, 10, 15, and 45 mg/kg once a week for two weeks, exhibited dose-dependent antitumor activity. Mice receiving 5 mg/kg achieved 79.9% tumor growth inhibition (TGI), while complete tumor regression was observed in those given 10, 15, or 45 mg/kg, with effects lasting until the end of the study [1]. Similarly, KT-333 ammonium at 10, 20, and 30 mg/kg showed dose-dependent antitumor effects over the same administration schedule. Mice treated with 10 mg/kg exhibited 83.8% TGI, and complete tumor regression was seen at 20 or 30 mg/kg, with sustained effects [1].

Solubility Information

Solubility	DMSO: 100 mg/mL (79.51 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.7951 mL	3.9753 mL	7.9505 mL
5 mM	0.159 mL	0.7951 mL	1.5901 mL
10 mM	0.0795 mL	0.3975 mL	0.7951 mL
50 mM	0.0159 mL	0.0795 mL	0.159 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

Ding X, et al. Antitumor effect of the novel sphingosine kinase 2 inhibitor ABC294640 is enhanced by inhibition of autophagy and by sorafenib in human cholangiocarcinoma cells. *Oncotarget*. 2016 Apr 12;7(15):20080-92.

Li N, et al. Breakthroughs in treatment for hematological malignancies: latest updates on molecular glue, PROTACs and RNA degraders from ASH 2024. *J Hematol Oncol*. 2025 Mar 5;18(1):26.

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