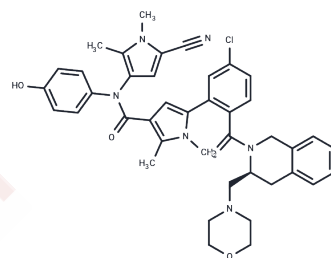


S65487

Chemical Properties

CAS No. :	1644600-79-2
Formula:	C ₄₁ H ₄₁ ClN ₆ O ₄
Molecular Weight:	717.26
Storage:	Store at low temperature Powder: -20°C for 3 years In solvent: -80°C for 1 year <i>Actual storage temperature shall be subject to the COA.</i>



Biological Description

Description	S65487 (VOB560) is a potent and selective inhibitor of the anti-apoptotic protein Bcl-2, displaying activity not only against the wild-type protein but also against clinically relevant BCL-2 mutations such as G101V and D103Y. S65487 demonstrates poor affinity toward other Bcl-2 family members, including MCL-1, BFL-1, and BCL-XL, which underlines its selectivity profile. S65487 induces apoptosis in cancer cells and exhibits robust anticancer activities in preclinical studies.
Targets(IC50)	Apoptosis,Bcl-2 Family,Others
In vitro	S65487 effectively induces apoptosis and inhibits proliferation in a panel of hematologic cancer cell lines by binding to the BH3 hydrophobic groove of the BCL-2 protein, with a half-maximal inhibitory concentration (IC50) in the low nanomolar (nM) range. [1]
In vivo	S65487 effectively induces complete regression in BCL-2-dependent RS4;11 tumors through a single intravenous (IV) dose and demonstrates consistent, strong tumor regression in mouse and rat xenograft models of lymphoid malignancies at tolerable doses with weekly IV administrations when combined with MCL-1-specific inhibitor S64315/MIK665.[1]

Solubility Information

Solubility	DMSO: 160 mg/mL (223.07 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 5 mg/mL (6.97 mM),Sonication is recommended. <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	1.3942 mL	6.971 mL	13.9419 mL
5 mM	0.2788 mL	1.3942 mL	2.7884 mL
10 mM	0.1394 mL	0.6971 mL	1.3942 mL
50 mM	0.0279 mL	0.1394 mL	0.2788 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

Arnaud Le Tiran, et al. Abstract 1276: Identification of S65487/VOB560 as a potent and selective intravenous 2nd-generation BCL-2 inhibitor active in wild-type and clinical mutants resistant to Venetoclax. Cancer Research. July 2021.

American Association for Cancer Research, AACR. 2021.4.10-15.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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