

S55746

Chemical Properties

CAS No. : 1448584-12-0

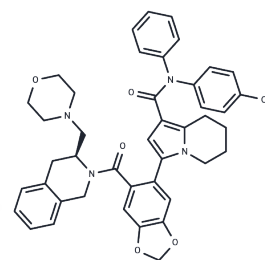
Formula: C43H42N4O6

Molecular Weight: 710.82

Store at low temperature

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	S55746 (BLC201) is an effective and selective BCL-2 inhibitor (Ki: 1.3 nM and a Kd of 3.9 nM).
Targets(IC50)	Bcl-2 Family
In vitro	S55746 selectively causes apoptosis through BCL-2 inhibition in a BAX/BAK-dependent manner. S55746 (0-1 μM) effectively and selectively induces cell death [1].
In vivo	S55746 is a potent and well-tolerated oral BCL-2 inhibitor, effective even at doses up to 300 mg/kg. At doses of 20-100 mg/kg (p.o.), S55746 inhibits xenograft growth in RS4 [1].

Solubility Information

Solubility	DMSO: 44 mg/mL (61.9 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: 2 mg/mL (2.81 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	1.4068 mL	7.0341 mL	14.0683 mL
5 mM	0.2814 mL	1.4068 mL	2.8137 mL
10 mM	0.1407 mL	0.7034 mL	1.4068 mL
50 mM	0.0281 mL	0.1407 mL	0.2814 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

Casara P, et al. S55746 is a novel orally active BCL-2 selective and potent inhibitor that impairs hematological tumor growth. *Oncotarget*. 2018 Apr 13;9(28):20075-20088.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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