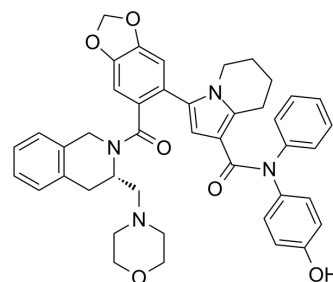


S55746

Cat. No.:	HY-117288		
CAS No.:	1448584-12-0		
Molecular Formula:	C ₄₃ H ₄₂ N ₄ O ₆		
Molecular Weight:	710.82		
Target:	Bcl-2 Family		
Pathway:	Apoptosis		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 50 mg/mL (70.34 mM; Need ultrasonic)			
		Solvent Concentration	Mass	
			1 mg	5 mg
			10 mg	
Preparing Stock Solutions	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
Please refer to the solubility information to select the appropriate solvent.				
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: 5.75 mg/mL (8.09 mM); Suspended solution; Need ultrasonic Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (3.52 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (3.52 mM); Clear solution 			

BIOLOGICAL ACTIVITY

Description	S55746 (BCL201) is a potent, orally active and selective BCL-2 inhibitor, with a K _i of 1.3 nM and a K _d of 3.9 nM. S55746 (BCL201) has antitumor activity with low toxicity ^[1] .			
IC₅₀ & Target	Bcl-2 1.3 nM (K _i)	Bcl-xL 520 nM (K _i)	Bcl-2 3.9 nM (K _d)	Bcl-xL 186 nM (K _d)
In Vitro	S55746 (0-1 μM) potently and selectively induces cell death ^[1] .			

S55746 selectively induces apoptosis through BCL-2 inhibition in a BAX/BAK-dependent manner^[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.
Western Blot Analysis^[1]

Cell Line:	H146 and RS4;11 cell lines.
Concentration:	0, 0.1, 0.3 and 1 μ M.
Incubation Time:	72 hours.
Result:	Potently induced RS4;11 cell killing after 72 h of treatment with an IC ₅₀ of 71.6 nM.

In Vivo

S55746 is a highly efficacious and well-tolerated (even at doses up to 300 mg/kg) orally active BCL-2 inhibitor^[1].
S55746 (20-100 mg/kg, p.o.) inhibits xenograft growth in RS4;11 and Toledo models time- and dose-dependently^[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	Female SCID/beige mice implanted subcutaneously with 3×10^6 Toledo or RS4;11 ^[1] .
Dosage:	20, 50, 100 mg/kg.
Administration:	Oral gavage daily for 7 consecutive days.
Result:	Induced significant anti-tumor activity time- and dose-dependently.
Animal Model:	SCID/beige female mice with RS4;11 tumor xenografts ^[1] .
Dosage:	25 and 100 mg/kg.
Administration:	Single oral gavage treatment.
Result:	Did not induce platelet loss in vivo at 25 and 100 mg/kg.

CUSTOMER VALIDATION

- Biomed Pharmacother. 2021 Jan 1;135:111213.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. 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.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA