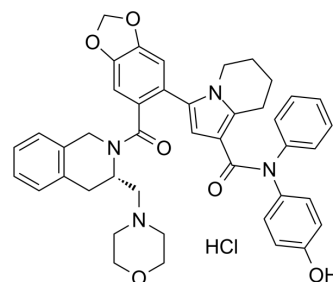


## S55746 hydrochloride

Cat. No.:	HY-117288A
CAS No.:	1448525-91-4
Molecular Formula:	C <sub>43</sub> H <sub>43</sub> ClN <sub>4</sub> O <sub>6</sub>
Molecular Weight:	747.28
Target:	Bcl-2 Family
Pathway:	Apoptosis
Storage:	4°C, stored under nitrogen
	* In solvent : -80°C, 6 months; -20°C, 1 month (stored under nitrogen)



### SOLVENT & SOLUBILITY

In Vitro	DMSO : 200 mg/mL (267.64 mM; Need ultrasonic)				
		Solvent Concentration	Mass		
	Preparing Stock Solutions		1 mg	5 mg	10 mg
		1 mM	1.3382 mL	6.6909 mL	13.3819 mL
		5 mM	0.2676 mL	1.3382 mL	2.6764 mL
	10 mM	0.1338 mL	0.6691 mL	1.3382 mL	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 5 mg/mL (6.69 mM); Clear solution				
	2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 5 mg/mL (6.69 mM); Clear solution				

### BIOLOGICAL ACTIVITY

Description	S55746 hydrochloride (BCL201 hydrochloride) is a potent, orally active and selective BCL-2 inhibitor, with a K <sub>i</sub> of 1.3 nM and a K <sub>d</sub> of 3.9 nM. S55746 hydrochloride (BCL201 hydrochloride) has antitumor activity with low toxicity <sup>[1]</sup> .			
IC <sub>50</sub> & Target	Bcl-2 1.3 nM (K <sub>i</sub> )	Bcl-xL 520 nM (K <sub>i</sub> )	Bcl-2 3.9 nM (K <sub>d</sub> )	Bcl-xL 186 nM (K <sub>d</sub> )
In Vitro	S55746 (0-1 μM) potently and selectively induces cell death <sup>[1]</sup> . S55746 selectively induces apoptosis through BCL-2 inhibition in a BAX/BAK-dependent manner <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only. Western Blot Analysis <sup>[1]</sup>			

	Cell Line:	H146 and RS4;11 cell lines.
	Concentration:	0, 0.1, 0.3 and 1 $\mu$ M.
	Incubation Time:	72 hours.
	Result:	Potently induced RS4;11 cell killing after 72 h of treatment with an IC <sub>50</sub> 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 <sup>[1]</sup> . S55746 (20-100 mg/kg, p.o.) inhibits xenograft growth in RS4;11 and Toledo models time- and dose-dependently <sup>[1]</sup> . 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 $\times$ 10 <sup>6</sup> Toledo or RS4;11 <sup>[1]</sup> .
	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 <sup>[1]</sup> .
	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.

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## 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.**

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