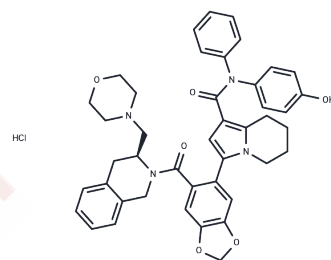


## S55746 hydrochloride

### Chemical Properties

CAS No. :	1448525-91-4
Formula:	C <sub>43</sub> H <sub>43</sub> ClN <sub>4</sub> O <sub>6</sub>
Molecular Weight:	747.28
Storage:	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	S55746 hydrochloride is a potent, orally active and selective inhibitor of BCL-2 (K <sub>i</sub> of 1.3 nM and a K <sub>d</sub> of 3.9 nM), with antitumor activity with low toxicity.
Targets(IC <sub>50</sub> )	Bcl-2 Family
In vitro	S55746 selectively induces apoptosis through BCL-2 inhibition in a BAX/BAK-dependent manner. S55746 (0-1 μM) potently and selectively induces cell death.
In vivo	S55746 is a highly efficacious and well-tolerated BCL-2 inhibitor, orally active even at doses up to 300 mg/kg. In RS4 and Toledo models, S55746 (20-100 mg/kg, p.o.) inhibits xenograft growth in a time- and dose-dependent manner.

### Preparing Stock Solutions

	1mg	5mg	10mg
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
50 mM	0.0268 mL	0.1338 mL	0.2676 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.

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