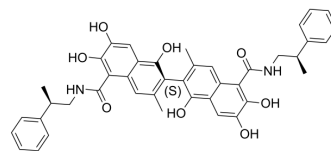


## (S)-Sabutoclax

Cat. No.:	HY-15191B	
CAS No.:	1228178-73-1	
Molecular Formula:	C <sub>42</sub> H <sub>42</sub> N <sub>2</sub> O <sub>8</sub> S	
Molecular Weight:	732.84	
Target:	Bcl-2 Family	
Pathway:	Apoptosis	
Storage:	Powder	-20°C 3 years
	In solvent	-80°C 6 months
		-20°C 1 month



### SOLVENT & SOLUBILITY

In Vitro	DMSO : 30 mg/mL (40.94 mM; Need ultrasonic)			
	H <sub>2</sub> O : < 0.1 mg/mL (insoluble)			
		Solvent Concentration	Mass	
			1 mg	5 mg
Preparing Stock Solutions	1 mM	1.3646 mL	6.8228 mL	13.6455 mL
	5 mM	0.2729 mL	1.3646 mL	2.7291 mL
	10 mM	0.1365 mL	0.6823 mL	1.3646 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: 3 mg/mL (4.09 mM); Suspended solution; Need ultrasonic			

### BIOLOGICAL ACTIVITY

Description	(S)-Sabutoclax ((S)-BI-97C1), an optically pure apogossypol derivative, is pan-active inhibitor of antiapoptotic B-cell lymphoma/leukemia-2 (Bcl-2) family proteins. (S)-Sabutoclax (Compound II) inhibits the binding of BH3 peptides to Bcl-XL, Bcl-2, Mcl-1, and Bfl-1 with IC <sub>50</sub> values of 0.31, 0.32, 0.20, and 0.62 μM, respectively. (S)-Sabutoclax also potently inhibits cell growth of human prostate cancer, lung cancer, and lymphoma cell lines with EC <sub>50</sub> values of 0.13, 0.56, and 0.049 μM, respectively. (S)-Sabutoclax can be used for the research of apoptosis-based therapies against cancer <sup>[1]</sup> .
IC <sub>50</sub> & Target	IC50: 0.31 μM (Bcl-XL), 0.32 μM (Bcl-2), 0.20 μM (Mcl-1), 0.62 μM (Bfl-1); EC50: 0.13 (human prostate cancer cell lines), 0.56 (lung cancer cell lines), 0.049 μM (lymphoma cell lines) <sup>[1]</sup> .

### REFERENCES

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[1]. Wei J, et al. BI-97C1, an optically pure Apogossypol derivative as pan-active inhibitor of antiapoptotic B-cell lymphoma/leukemia-2 (Bcl-2) family proteins. J Med Chem. 2010 May 27;53(10):4166-76.

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

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