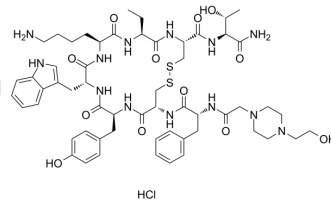


BIM-23190 hydrochloride

Cat. No.:	HY-P3124A
Molecular Formula:	C ₅₇ H ₈₀ ClN ₁₃ O ₁₂ S ₂
Molecular Weight:	1238.91
Sequence:	{4-(2-Hydroxyethyl)-1-piperazinylacetyl}-{D-Phe}-Cys-Tyr-[D-Trp]-Lys-{Abu}-Cys-Thr-NH ₂ (Disulfide bridge: Cys2-Cys7)
Sequence Shortening:	{4-(2-Hydroxyethyl)-1-piperazinylacetyl}-{D-Phe}-CY-[D-Trp]-K-[Abu]-CT-NH ₂ (Disulfide bridge: Cys2-Cys7)
Target:	Somatostatin Receptor
Pathway:	GPCR/G Protein; Neuronal Signaling
Storage:	Sealed storage, away from moisture Powder -80°C 2 years -20°C 1 year
	* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (80.72 mM; Need ultrasonic)
H₂O : 100 mg/mL (80.72 mM; Need ultrasonic)

Preparing Stock Solutions	Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	0.8072 mL	4.0358 mL	8.0716 mL
	5 mM	0.1614 mL	0.8072 mL	1.6143 mL
	10 mM	0.0807 mL	0.4036 mL	0.8072 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

- Add each solvent one by one: PBS
Solubility: 50 mg/mL (40.36 mM); Clear solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 2.5 mg/mL (2.02 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.5 mg/mL (2.02 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.5 mg/mL (2.02 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

BIM-23190 hydrochloride, a somatostatin analog, a selective SSRT2 and SSRT5 agonist, exhibits K_i values of 0.34 nM and 11.1

	nM for SSTR2 and SSTR5, respectively. BIM-23190 can be used in the study for cancer and acromegaly ^{[1][3]} .	
IC₅₀ & Target	SSTR2	SSTR5
In Vitro	BIM-23190 tends to mildly stimulate PRL secretion ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	
In Vivo	BIM-23190 (50 µg/mouse, twice a day) exhibits significant anti-tumor (C6 glioma) activity ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	
	Animal Model:	Male athymic nude (nu/nu) mice, 5-6 wk old (C6 glioma) ^[2] .
	Dosage:	50 µg/mouse.
	Administration:	Injected twice a day for 19 days.
	Result:	Significantly reduced the tumor growth rate.

REFERENCES

- [1]. I Shimon, et al. Somatostatin receptor (SSTR) subtype-selective analogues differentially suppress in vitro growth hormone and prolactin in human pituitary adenomas. Novel potential therapy for functional pituitary tumors. *J Clin Invest.* 1997 Nov 1;100(9):2386-92.
- [2]. Federica Barbieri, et al. Differential efficacy of SSTR1, -2, and -5 agonists in the inhibition of C6 glioma growth in nude mice. *Am J Physiol Endocrinol Metab.* 2009 Nov;297(5):E1078-88.
- [3]. T J Gillespie, et al. Novel somatostatin analogs for the treatment of acromegaly and cancer exhibit improved in vivo stability and distribution. *J Pharmacol Exp Ther.* 1998 Apr;285(1):95-104.

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

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