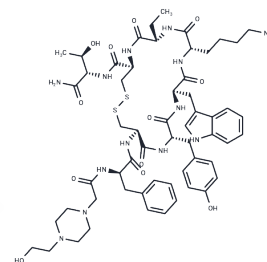


BIM-23190

Chemical Properties

CAS No. :	182153-96-4
Formula:	C57H79N13O12S2
Molecular Weight:	1202.46
Storage:	Keep away from moisture Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	BIM-23190 is a somatostatin analog that acts as a selective agonist for SSTR2 and SSTR5 receptors. It displays potency with K_i values of 0.34 nM and 11.1 nM for SSTR2 and SSTR5, respectively. BIM-23190 finds utility in cancer and acromegaly research.
Targets(IC50)	Somatostatin
In vitro	BIM-23190 mildly stimulates PRL secretion [1].
In vivo	BIM-23190, administered at a dosage of 50 μ g per mouse twice daily, demonstrated notable anti-tumor activity against C6 glioma in a study involving male athymic nude (nu/nu) mice aged 5-6 weeks. Over a 19-day period, the injections significantly reduced the growth rate of the tumors.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.8316 mL	4.1581 mL	8.3163 mL
5 mM	0.1663 mL	0.8316 mL	1.6633 mL
10 mM	0.0832 mL	0.4158 mL	0.8316 mL
50 mM	0.0166 mL	0.0832 mL	0.1663 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

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.

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.

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.

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