BIM-23190

Cat. No.:	HY-P3124
CAS No.:	182153-96-4
Molecular Formula:	$C_{57}H_{79}N_{13}O_{12}S_2$
Molecular Weight:	1202.45
Sequence:	{4-(2-Hydroxyethyl)-1-piperazinylacetyl}-{D-Phe}-Cys-Tyr-{D-Trp}-Lys-{Abu}-Cys-Thr-NH2 (Disulfide bridge: Cys2-Cys7)
Sequence Shortening:	{4-(2-Hydroxyethyl)-1-piperazinylacetyl}-{D-Phe}-CY-{D-Trp}-K-{Abu}-CT-NH2 (Disulfide bridge: Cys2-Cys7)
Target:	Somatostatin Receptor
Pathway:	GPCR/G Protein; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

BIOLOGICAL ACTIVITY

Description	BIM-23190, a somatostatin analog, a selective SSTR2 and SSTR5 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].
IC_{50} & 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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