Lanreotide

®

MedChemExpress

Cat. No.:	HY-P1959	
CAS No.:	108736-35-2	
Molecular Formula:	C ₅₄ H ₆₉ N ₁₁ O ₁₀ S ₂	
Molecular Weight:	1096.32	
Sequence Shortening:	{d-2nal}-CY-{d-Trp}-KVCT-NH2 (Disulfide bridge: Cys2-Cys7)	
Target:	Others	
Pathway:	Others	
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.	

Proteins

Description	Lanreotide (BIM 23014) is a somatostatin analogue with antineoplastic activity. Lanreotide can be used for the research of carcinoid syndrome ^{[1][2]} .		
In Vitro	Lanreotide (BIM 23014) (100 nM; 0-48 h) enhanced radiation-induced apoptosis ^[1] . Lanreotide results in a dose-dependent decrease in GH3 cell colony forming units. Lanreotide at concentrations of 1, 10, and 1000 nM results in cell survival rates of 75, 56, 39 and 27% respectively. The IC ₅₀ is 57 nM ^[1] . Lanreotide inhibits GH-secreting pituitary adenoma cell proliferation and hormone release in vitro ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. Apoptosis Analysis ^[1]		
	Cell Line:	GH3	
	Concentration:	100 nM	
	Incubation Time:	48 h, 24 h, or immediately (0 h) before radiation	
	Result:	Increased apoptotic sub-G1 proportion compared with radiation alone.	
In Vivo	Lanreotide (2.5-10mg/kg; s.c.; daily for 5 days) results in tumor growth inhibition ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.		
	Animal Model:	Male nude mice, 8 weeks old and 20–25 g in body weight (GH3 tumor-bearing nude mice) [1]	
	Dosage:	2.5, 5, 10 mg/kg	
	Administration:	Subcutaneous; daily for 5 days	
	Result:	Produced tumor growth inhibition.	

REFERENCES

[1]. Ning S, et al. Lanreotide promotes apoptosis and is not radioprotective in GH3 cells.Endocr Relat Cancer. 2009 Sep;16(3):1045-55.

[2]. Florio T, et al. Characterization of the intracellular mechanisms mediating somatostatin and lanreotide inhibition of DNA synthesis and growth hormone release from dispersed human GH-secreting pituitary adenoma cells in vitro. Clin Endocrinol (Oxf). 2003 Jul;59(1):115-28.

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

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