

Product Name: Octreotide acetate Revision Date: 08/10/2022



Octreotide acetate

Cat. No.:	B4979
CAS No.:	79517-01-4
Formula:	C51H70N10O12S2
M.Wt:	1079.29
Synonyms:	SMS 201995; Sandostatin
Target:	GPCR/G protein
Pathway:	Somatostatin Receptor
Storage:	Store at -20° C

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Solvent & Solubility

	≥53.96 mg/mL ir	n DMSO; ≥10.04	mg/mL in EtOH;	≥28.85 mg/mL in H2O
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		Mass			
In Vitro	Preparing Stock Solutions	Solvent	1mg	5mg	10mg
		Concentration			
		1 mM	0.9265 mL	4.6327 mL	9.2654 mL
		5 mM	0.1853 mL	0.9265 mL	1.8531 mL
		10 mM	0.0927 mL	0.4 <mark>63</mark> 3 mL	0.9265 mL

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

Biological Activity

Shortsummary	octapeptide congener of native somatostatin		
IC ₅₀ & Target	& Target		
	Cell Viability Assay	En una	
	Cell Line:	Human HUV-EC-C endothelial cells	
	Preparation method:	The solubility of this compound in DMSO is >10 mM. General tips for obtaining	
In Vitro		a higher concentration: Please warm the tube at 37 $^\circ C$ for 10 minutes and/or	
		shake it in the ultrasonic bath for a while.Stock solution can be stored below	
		-20°C for several months.	
	Reacting conditions:	1 μM, 72 hours	

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	Applications:	Octreotide 1 nM produced a maximum 45.8% reduction of cell proliferation as		
		compared to control cultures, from 9.7 to 4.4 x I03 cells/well. To assess the		
		influence of medium supplements on the inhibition of HUV-EC-C cell growth.		
		Octreotide was tested against graded concentrations of ECGF and heparin in		
		the culture medium. Overall, these changes did not significantly affect the		
	al Que	growth-inhibitory activity of octreotide as compared to baseline conditions.		
	Animal experiment	6 El anom		
	Animal models:	Male Sprague-Dawley rats		
	Dosage form:	Subcutaneous injection, 1 μg/kg, 10 μg/kg and 200 μg/kg		
	Applications:	NREMS and SWA were normal after 1 µg/kg octreotide. REMS, however,		
		enhanced significantly during the light period. The increases in REMS started		
		2–3 h postinjection and persisted during the rest of the day, although they were		
n Vivo		very small when the individual hours were considered. In response to 10 µg/kg		
		octreotide, NREMS was significantly suppressed in hour 1 postinjection		
	.0	Calculated for the 12-h light period, NREMS or SWA did not differ between the		
	Barrow	baseline and the octreotide days.		
	Other notes:	Please test the solubility of all compounds indoor, and the actual solubility may		
		slightly differ with the theoretical value. This is caused by an experimental		
		system error and it is normal.		

Product Citations

See more customer validations on www.apexbt.com.

References

[1] Danesi R, Agen C, Benelli U, et al. Inhibition of experimental angiogenesis by the somatostatin analogue octreotide acetate (SMS 201-995). Clinical Cancer Research, 1997, 3(2): 265-272.

[2] Beranek L, Obal Jr F, Taishi P, et al. Changes in rat sleep after single and repeated injections of the long-acting somatostatin analog octreotide. American Journal of Physiology-Regulatory, Integrative and Comparative Physiology, 1997, 273(4): R1484-R1491.





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