## Calcitonin (human)

MedChemExpress

Cat. No.:	HY-P2273		
CAS No.:	21215-62-3		
Molecular Formula:	C <sub>151</sub> H <sub>226</sub> N <sub>40</sub> O <sub>45</sub> S <sub>3</sub>		
Molecular Weight:	3417.87 CGNLSTCMLGTYTQDFNKFHTFPQTAIGVGAP-NH2 (Disulfide bridge:Cyst-Cyst)		
Sequence:	Cys-Gly-Asn-Leu-Ser-Thr-Cys-Met-Leu-Gly-Thr-Tyr-Thr-Gln-Asp-Phe-Asn-Lys-Phe-His- Thr-Phe-Pro-Gln-Thr-Ala-Ile-Gly-Val-Gly-Ala-Pro-NH2 (Disulfide bridge:Cys1-Cys7)		
Sequence Shortening:	CGNLSTCMLGTYTQDFNKFHTFPQTAIGVGAP-NH2 (Disulfide bridge:Cys1-Cys7)		
Target:	CGRP Receptor		
Pathway:	GPCR/G Protein; Neuronal Signaling		
Storage:	Sealed storage, away from moisture Powder -80°C 2 years -20°C 1 year the search construction (and the search of		
	* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)		

## SOLVENT & SOLUBILITY



DIOLOGICALACITY	
Description	Calcitonin (human) is a hypocalcemic hormone. Calcitonin can lower blood calcium levels and inhibit bone resorption. Calcitonin can be used in hypercalcemia or osteoporosis research <sup>[1][2][3]</sup> .
In Vitro	Calcitonin shows a potent inhibitory action on osteoclast mediated bone resorption <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	Calcitonin (oral gavage; 2 mg/kg; once daily; 9 w) can inhibit cartilage degradation and prevent cartilage erosion <sup>[3]</sup> .MCE has not independently confirmed the accuracy of these methods. They are for reference only.Animal Model:Female Sprague-Dawley rats <sup>[3]</sup>

Product Data Sheet

Dosage:	2 mg/kg
Administration:	Oral gavage; 2 mg/kg; once daily; 9 weeks
Result:	Suppressed ovariectomy-induced cartilage degradation (P<0.001) compared with the carrier control.
	Prevented cartilage erosion compared with treatment with the carrier alone (P<0.01), and
	the extent of erosions was comparable with that in sham-operated animals.

## REFERENCES

[1]. Foster GV. Calcitonin. A review of experimental and clinical investigations. Postgrad Med J. 1968 May;44(511):411-22.

[2]. Bodil-Cecilie Sondergaard, et al. The effect of oral calcitonin on cartilage turnover and surface erosion in an ovariectomized rat model. Arthritis Rheum. 2007 Aug;56(8):2674-8.

[3]. Sexton PM, et al. Calcitonin. Current Medicinal Chemistry, 01 Nov 1999, 6(11):1067-1093.

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

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