

Calcitonin (human)

Chemical Properties

CAS No.:	21215-62-3
Formula:	C ₁₅₁ H ₂₂₆ N ₄₀ O ₄₅ S ₃
Molecular Weight:	3417.87
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

Biological Description

Description	Endogenous calcitonin receptor agonist. Lowers systemic blood calcium levels and inhibits bone resorption.
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Solubility Information

Solubility	water: 2 mg/mL (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.293 mL	1.463 mL	2.926 mL
5 mM	0.059 mL	0.293 mL	0.585 mL
10 mM	0.029 mL	0.146 mL	0.293 mL
50 mM	0.006 mL	0.029 mL	0.059 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. Foster (1968) Calcitonin. A review of experimental and clinical investigations. Postgrad.Med.J. 44 411 PMID:
2. Bower and Hay (2016) Amylin structure-function relationships and receptor pharmacology: implications for amylin mimetic drug development. Br.J.Pharmacol. 173 1883 PMID:
3. Lee et al (2016) Calcitonin and amylin receptor peptide interaction mechanisms. J.Biol.Chem. 291 16416 PMID:

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