

Calcitonin, salmon**Cat. No.:** RP11099-0.5**Size:** 0.5 mg**Alias:** Thyrocalcitonin**Description:**

Calcitonin (salmon) is an hypocalcemic hormone produced by the parafollicular C cells of the thyroid or by the ultimobranchial bodies of nonmammalian vertebrates. Calcitonin decreases blood calcium and phosphate due to inhibition of resorption by osteoblasts and osteocytes. Calcitonin contains a single disulfide bond, which causes the amino terminus to assume the shape of a ring. Alternative splicing of the calcitonin pre-mRNA can yield a mRNA encoding calcitonin gene-related peptide; that peptide appears to function in the nervous and vascular systems. The calcitonin receptor has been cloned and shown to be a member of the seven-transmembrane, G protein-coupled receptor family.

Cas No: 47931-85-1**C-Terminal:** NH₂**Sequence (one-letter code):**CSNLSTCVLGKLSQELHKLQTYPRNTGSGTP-NH₂**Sequence (three-letter code):**

{CYS}{SER}{ASN}{LEU}{SER}{THR}{CYS}{VAL}{LEU}{GLY}{LYS}{LEU}{SER}{GLN}{GLU}{LEU}{HIS}{LYS}{LEU}{GLN}{THR}{TYR}{PRO}{ARG}{THR}{ASN}{THR}{GLY}{SER}{GLY}{THR}{PRO}-NH₂

Solubility: Soluble in water. The contents of this vial have been accurately determined. Both the stopper and the vial have been siliconized. Do not attempt to weight out a smaller portion of the contents.

Formula: C₁₄₅H₂₄₀N₄₄O₄₈S₂**Molecular Weight:** 3,431.9**Purity:** > 95%**Storage:**

Store at -20°C.

Note: Calcitonin is a 32 amino acid polypeptide, 8 of which

are conserved across all species.

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