

## Calcitonin Acetate Salmon

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| Item Number                       | rAP-2546                                                                                                                                                                                                                                                                                                                                                                                            |
| Synonyms                          | CT, KC, CGRP, CALC1, CGRP1, CGRP-I, MGC126648, katalcalcin, Calcitonin gene-related peptide 1 precursor, Calcitonin gene-related peptide I.                                                                                                                                                                                                                                                         |
| Description                       | Calcitonin Acetate (Salmon) is a synthetic polypeptide of 32 amino acids in the same linear sequence that is found in calcitonin of salmon origin. The Molecular Formula is C <sub>145</sub> H <sub>240</sub> N <sub>44</sub> O <sub>48</sub> S <sub>2</sub> . Calcitonin Molecular Weight: 3431.9 Dalton.                                                                                          |
| Uniprot Accession Number          | P01265                                                                                                                                                                                                                                                                                                                                                                                              |
| Amino Acid Sequence               | Calcitonin Acetate (Salmon) has an amino acid sequence of: 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-NH <sub>2</sub> .                                                                                                                                                                                        |
| Source                            |                                                                                                                                                                                                                                                                                                                                                                                                     |
| Physical Appearance and Stability | Sterile Filtered White lyophilized (freeze-dried) powder. Lyophilized Calcitonin although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution CGRP should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles. |
| Formulation and Purity            | The calcitonin peptide was lyophilized with no additives. Greater than 98.0% as determined by:(a) Analysis by RP-HPLC.(b) Analysis by SDS-PAGE.                                                                                                                                                                                                                                                     |
| Application                       |                                                                                                                                                                                                                                                                                                                                                                                                     |
| Solubility                        | It is recommended to reconstitute the lyophilized Calcitonin in sterile 18MΩ-cm H <sub>2</sub> O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.                                                                                                                                                                                                             |
| Biological Activity               |                                                                                                                                                                                                                                                                                                                                                                                                     |
| Shipping Format and Condition     | Lyophilized powder at room temperature.                                                                                                                                                                                                                                                                                                                                                             |

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the ender users! This product is sold for **Research Use Only**