

## Elcatonin - Purified

**Catalog No.:** AR10226PU-N

**Quantity:** 1 mg

**Background:** Elcatonin is a Calcitonin derivative which is transformed from eel's calcitonin by changing the S-S bond into the stable C-N bond. It inhibits the absorption and autolysis of bones, thus leads to blood calcium descending. In addition, it inhibits the bone salts dissolving and transferring and promotes the excretion of calcium and phosphorus in urine. Meanwhile, it inhibits renal tubules reabsorbing calcium, phosphorus and sodium and keeps blood calcium at normal level. It is mainly used for remitting or eliminating the pain caused by Osteoporosis.

**Source:** Synthetic

**Format:** **State:** Sterile Filtered White lyophilized (freeze-dried) powder without additives  
**Purity:** > 93.9% as determined by both RP-HPLC and SDS-PAGE analysis  
**Reconstitution:** Restore in sterile 18MΩ-cm<sup>-1</sup> H<sub>2</sub>O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

**Description:** Elcatonin Synthetic is a single, non-glycosylated polypeptide chain containing 31 amino acids.  
**Molecular formula:** C<sub>148</sub>H<sub>244</sub>N<sub>42</sub>O<sub>47</sub>  
**AA Sequence:**  
Ser-Asn-Leu-Ser-Thr-Asu-Val-Leu-Gly-Lys-Leu-Ser-Gln-Glu-Leu-His-Lys-Leu-Gln-Thr-Tyr-Pro-Arg-Thr-Asn-Val-Gly-Ala-Gly-Thr-Pro-NH<sub>2</sub>  
**Biological Activity:** 6065 IU/mg (based on net peptide)  
**Molecular weight:** 3363.2 Da

**Storage:** Prior to reconstitution store at 2-8°C for one month or desiccated below -18°C.  
Following reconstitution store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.  
Avoid repeated freezing and thawing.  
Shelf life: one year from despatch.