



Product Datasheet

Product Name Elcatonin
Cata No CB500750
Source
Synonyms

Description

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.

Elcatonin Synthetic is a single, non-glycosylated polypeptide chain containing 31 amino acids, having a molecular mass of 3363.2 Dalton and a Molecular formula of $C_{148}H_{244}N_{42}O_{47}$.

Physical Appearance

Sterile Filtered White lyophilized (freeze-dried) powder.

Biological Activity

Biological Activity (based on net peptide) was found to be 6065 IU/mg.

Purity

Greater than 93.9% as determined by:
(a) Analysis by RP-HPLC.
(b) Analysis by SDS-PAGE.

Formulation

The protein was lyophilized with no additives.

Stability

Lyophilized Elcatonin although stable at room temperature for 3 weeks, should be stored desiccated below -18°C . Upon reconstitution Elcatonin 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.