9051 Mira Mesa Blvd, #910094
San Diego, CA 92191
Tel: 760-390-3989

Elcatonin

Elcatonin
HRM0026

Product Overview

Name	Elcatonin

Description

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Introduction

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.

Physical Appearance

Sterile Filtered White lyophilized (freeze-dried) powder.

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.

Purity

Greater than 93.3% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.

Amino acid 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-NH2.

Biological Activity

Biological Activity (based on net peptide) was found to be 6695.2 IU/mg.

Solubility

It is recommended to reconstitute the lyophilized Elcatonin in sterile 18MΩ-cm H2O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

Precautions

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Elcatonin is for research use only and not for use in diagnostic or therapeutic procedures.