
Product Data Sheet

Product Name: PTH (7-34) Human

Cat. No.: GP21301

Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.

Synonyms PTH/PTHrP receptor antagonist; PTHrP analog; PTHR; MGC138426; MGC138452.

Amino Acid Sequence LMHNLGKHLN SMERVEWLRK KLQDVHNF.

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

Formulation The protein (1 mg/ml) was lyophilized after extensive dialyses against 20mM PBS pH-7.0 and 150mM NaCl.

Introduction

Polypeptide hormones secreted by the parathyroid glands, which promote release of calcium from bone to extracellular fluid by activating osteoblasts and inhibiting osteoclasts, indirectly promote increased intestinal absorption of calcium, and promote renal tubular reabsorption of calcium and increased renal excretion of phosphates. It is a major regulator of bone metabolism. Secretion of parathyroid hormone increases when the level of calcium in the extracellular fluid is low. Its action is opposed by calcitonin. PTH (7-34), which is a PTH/PTHrP receptor antagonist, can stimulate hair growth and epidermal proliferation in mice.

Biological Activity

The activity calculated by UMR106 cell/cAMP method corresponding to a specific activity of 10,000 Units/mg.

Stability

Caution: Product has not been fully validated for medical applications. For research use only.

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

Background

Parathyroid Hormone Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 28 amino acids and having a molecular mass of 3380 Dalton. The PTH is purified by proprietary chromatographic techniques.

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