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

PTH (7-34) Human

Parathyroid Hormone (7-34) Human Recombinant
HRM0095

Product Overview

Name	PTH (7-34) Human
Description	
Parathyroid Hormone (7-34) Human Recombinant	
Accession (Primary)	Q03431
Synonyms	
PTH/PTHrP receptor antagonist, PTHrP analog, PTHR, MGC138426, MGC138452.	
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.	
Source	
Escherichia Coli.	
Physical Appearance	
Sterile Filtered White lyophilized (freeze-dried) powder.	
Formulation	
The protein (1 mg/ml) was lyophilized after extensive dialyses against 20mM PBS pH-7.0 and 150mM NaCl.	
Stability	
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.	
Purity	
Greater than 97.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.	
Amino acid sequence	
LMHNLGKHLN SMERVEWLRK KLQDVHNF.	
Biological Activity	

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

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.

Precautions

PTH (7-34) Human is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (Q03431)