

32-2075: PTH (7-34) Recombinant Protein

Alternative Name : PTH/PTHrP receptor antagonist, PTHrP analog, PTHR, MGC138426, MGC138452.

Description

Source : Escherichia Coli. 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. 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.

Product Info

Amount :	0.5 mg
Purification :	Greater than 97.0% as determined by:(a) Analysis by RP-HPLC.(b) Analysis by SDS-PAGE.
Content :	The protein (1 mg/ml) was lyophilized after extensive dialyses against 20mM PBS pH-7.0 and 150mM NaCl.
Storage condition :	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.
Amino Acid :	LMHNLGKHLN SMERVEWLRK KLQDVHNF.

Application Note

It is recommended to reconstitute the lyophilized PTH in sterile 18M Ω -cm H₂O not less than 100 μ g/ml, which can then be further diluted to other aqueous solutions. The activity calculated by UMR106 cell/cAMP method corresponding to a specific activity of 10,000 Units/mg.

