www.neobiolab.com
info@neobiolab.com
888.754.5670, +1 617.500.7103 United States
0800.088.5164, +44 020.8123.1558 United Kingdom

PTH (7-34) Human

Catalog #:HOPS-273

For research use only.

Description: 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.

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

Source: Escherichia Coli.

Physical Appearance: Sterile Filtered White lyophilized (freeze-dried) powder.

Amino Acid Sequence:
Leu-Met-His-Asn-Leu-Gly-Lys-His-Leu-Asn-Ser-Met-Glu-Arg-Val-Glu-Trp-Leu-Arg-Lys-Lys-Leu-Gl
n-Asp-Val-His-Asn-Phe.

Purity: Greater than 97.0% as determined by(a) Analysis by RP-HPLC.(b) Analysis by SDS-PAGE.

Formulation:
The protein (1 mg/ml) was lyophilized after extensive dialyses against 20mM PBS pH-7.0 and 4% mannitol.

Stability:
Lyophilized Parathyrin althoμgh 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.

Usage:
NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drμgs, agricultural or pesticidal products, food additives or household chemicals.

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

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.

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