PTH Protein, Human (HEK293, His)

Cat. No.:	HY-P71060
Synonyms:	Parathyroid hormone; PTH; Parathormone; Parathyrin; PTH
Species:	Human
Source:	HEK293
Accession:	P01270 (S32-Q115)
Gene ID:	5741
Molecular Weight:	Approximately 15 kDa

PROPERTIES

AA Sequence	S V S E I Q L M H N L G K H L N S M E R V E W L R K K L Q D V H N F V A L G A P L A P R D A G S Q R P R K K E D N V L V E S H E K S L G E A D K A D V N V L T K A K S Q
Biological Activity	Measured by its ability to alkaline phosphatase production by MC3T3-E1 mouse preosteoblast cells. The ED_{50} this effect is 7.273 ng/mL, corresponding to a specific activity is 1.375×10^5 units/mg.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4 or 20 mM PB, 150 mM NaCl, pH 7.4.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US;may vary elsewhere.

DESCRIPTION

Background	PTH, or parathyroid hormone, functions to increase calcium levels by facilitating the dissolution of bone salts and inhibiting their excretion by the kidneys. Additionally, it stimulates [1-14C]-2-deoxy-D-glucose (2DG) transport and promotes glycogen synthesis in osteoblastic cells. PTH achieves these effects through its interaction with the PTH1R receptor, specifically binding to the N-terminal extracellular domain of the receptor.

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

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