

Recombinant Human PTH

Cat No:HR2R1902

For research use only

Overview

Quantity	2.0 ?g
Gene Symbol	PTH
Gene ID	5741
Accession	P01270
Alternative Name	PTH, Parathormone, Parathyrin Recombinant Human Parathyroid Hormone (PTH)
Species	Human
Source	E. coli
Description	Parathyroid hormone is a circulating hormone that acts as the central regulator of calcium metabolism by directly targeting bone, kidney, and intestine. The classical concept of PTH action is that it regulates serum calcium levels by stimulating bone resorption. However, intermittent administration of PTH selectively stimulates bone formation. It is now known that PTH binds to its receptor PTH1R, and activates the G protein alpha subunits. Besides PKA and PKC activation, PTH also regulates MAPKs including p42/p44 ERKs, p38, and c-Jun N-terminal kinase subtypes.
Functions	The ED(50) was determined by the dose-dependent proliferation of Immortalized Human Osteoblasts- SV40 and was found to be $\leq 0.5\text{ng/mL}$.
Formulation	Lyophilized from a 0.2 ?m filtered solution in PBS
Solubility	A quick spin of the vial followed by reconstitution in distilled water to a concentration not less than 0.1 mg/mL. This solution can then be diluted into other buffers.
Appearance	Lyophilized Powder
Molecular Weight	9
Purity	>95% as determined by SDS-PAGE
Concentration	<math>< 1.0\text{ EU/?g}</math> of recombinant protein as determined by the LAL method.
Shipping Condition	Ambient Temperature
Storage Condition	The lyophilized protein is stable for at least one year from date of receipt at -70°C . Upon reconstitution, this cytokine can be stored in working aliquots at $2^{\circ} - 8^{\circ}\text{C}$ for one month, or at -20°C for six months, with a carrier protein without detectable loss of activity. Avoid repeated freeze/thaw cycles.