

Recombinant Human PTHLH/PTHrP

Cat No:HR2R1905

For research use only

Overview

Quantity	20 ?g
Gene Symbol	PTHLH
Gene ID	5744
Accession	P12272
Alternative Name	Parathyroid hormone-related protein, Parathyroid hormone-like protein, PLP, PTH-rP
Species	
Source	E. coli
Description	PTHLH is a member of the parathyroid hormone family which regulates endochondral bone development and epithelial-mesenchymal interactions during the formation of the mammary glands and teeth via its receptor, PTHR1. In most cases of humoral hypercalcemia of malignancy, PTHLH is responsible. Alternatively spliced transcript variants have been found for this gene and mutations in this gene are also associated with brachydactyly type E2 (BDE2). Furthermore, evidence have been found for alternative translation initiation from non-AUG (CUG and GUG) start sites, downstream of the initiator AUG codon, resulting in nuclear forms of this hormone.
Functions	The ED(50) was determined by the dose-dependent proliferation of Immortalized Human Endometrial Stromal Cells (HESC) and was found to be $\lt; 0.05\text{ng/mL}$.
Formulation	Lyophilized from 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	N/A
Purity	>95% as determined by SDS-PAGE
Concentration	$\lt; 1.0\text{ EU/?g}$ 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? - 8?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.