

Recombinant Human Parathyroid hormone-related protein(PTHrH)

Catalog No: #AP70681

Package Size: #AP70681-1 20ug #AP70681-2 100ug #AP70681-3 1mg

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Description

Product Name	Recombinant Human Parathyroid hormone-related protein(PTHrH)
Host Species	E.coli
Purification	Greater than 90% as determined by SDS-PAGE.
Immunogen Description	Expression Region:37-175aaSequence Info:Full length of Isoform 2
Other Names	Parathyroid hormone-like protein ;PLP
Accession No.	P12272
Calculated MW	19.7 kDa
Tag Info	N-terminal 6xHis-tagged
Target Sequence	AVSEHQLLDKGGKSIQDLRRRFFLHHLIAEIHAEIRATSEVSPNSKPSNTKNHPVRFGLSDDEGRYLTQETNK VETYKEQPLKTPGKKKKGKPGKRKEQEKKKRRTRSAWLDSGVTGSGLEGDLSDTSTTSLELDSR
Formulation	Tris-based buffer50% glycerol
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C,-80°C. The shelf life of lyophilized form is 12 months at -20°C,-80°C.Notes:Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

Background

Neuroendocrine peptide which is a critical regulator of cellular and organ growth, development, migration, differentiation and survival and of epithelial calcium ion transport. Regulates endochondral bone development and epithelial-mesenchymal interactions during the formation of the mammary glands and teeth. Required for skeletal homeostasis. Promotes mammary mesenchyme differentiation and bud outgrowth by modulating mesenchymal cell responsiveness to BMPs. Upregulates BMPR1A expression in the mammary mesenchyme and this increases the sensitivity of these cells to BMPs and allows th to respond to BMP4 in a paracrine and,or autocrine fashion. BMP4 signaling in the mesenchyme, in turn, triggers epithelial outgrowth and augments MSX2 expression, which causes the mammary mesenchyme to inhibit hair follicle formation within the nipple sheath . Promotes colon cancer cell migration and invasion in an integrin alpha-6,beta-1-dependent manner through activation of Rac1.1 Publication

References

A parathyroid hormone-related protein implicated in malignant hypercalcemia cloning and expression.Suva L.J., Winslow G.A., Wettenhall R.E.H., Hammonds R.G., Moseley J.M., Diefenbach-Jagger H., Rodda C.P., Kemp B.E., Rodriguez H., Chen E.Y., Hudson P.J., Martin T.J., Wood W.I.Science 237:893-896(1987)Research Topic:Signal Transduction

Note: This product is for in vitro research use only and is not intended for use in humans or animals.