

Product Data Sheet



Inhibitors

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Formulation

Appearance

Cat. No.:

Species:

Source:

Accession:

Molecular Weight:

PROPERTIES

Gene ID:

Synonyms:

Lyophilized from a 0.22 μm filtered solution of Tris-based buffer,50% glycerol.

Parathyroid hormone related protein; Parathyroid hormone-like protein; Parathyroid like protein; PLP; PTH related protein; PTH-rP; PTHLH; PTHR; PTHR_HUMAN; PTHrP; PTHrP

Endotoxin Level

PTHrP Protein, Human (His)

HY-P702562

Human

E. coli

5744

19.7 kDa

P12272 (A37-R175)

Lyophilized powder.

<1 EU/µg, determined by LAL method.

Reconsititution

It is not recommended to reconstitute to a concentration less than 100 μ g/mL in ddH₂O.

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

Parathyroid hormone-related protein (PTHrP) emerges as a pivotal neuroendocrine peptide that orchestrates diverse cellular processes, encompassing growth, development, migration, differentiation, and survival, along with its integral role in epithelial calcium ion transport. Its regulatory influence extends to critical developmental events, such as endochondral bone development and the intricate interactions shaping mammary gland and tooth formation. PTHrP's indispensable contribution to skeletal homeostasis underscores its significance in maintaining bone integrity. Within the mammary context, PTHrP plays a multifaceted role, driving mesenchymal differentiation, promoting bud outgrowth, and modulating responsiveness to bone morphogenetic proteins (BMPs), thus intricately shaping mammary tissue architecture. Additionally, PTHrP influences colon cancer cell behavior, enhancing migration and invasion through integrin alpha-6/beta-1-dependent mechanisms. Notably, osteostatin, a derivative of PTHrP, exhibits potent inhibitory effects on osteoclastic bone resorption, emphasizing its role in bone metabolism regulation.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA

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