

## Product datasheet

# Human PTHLH peptide ab42283

### Description

<b>Product name</b>	Human PTHLH peptide
<b>Purity</b>	> 95 % HPLC.
<b>Animal free</b>	No
<b>Nature</b>	Synthetic
<b>Species</b>	Human
<b>Sequence</b>	TRSAW
<b>Amino acids</b>	107 to 111

### Specifications

Our **Abpromise guarantee** covers the use of **ab42283** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

<b>Applications</b>	Blocking
<b>Form</b>	Lyophilized

### Preparation and Storage

<b>Stability and Storage</b>	Shipped at 4°C. After reconstitution store at -20°C. Avoid freeze / thaw cycles. Constituent: 0.1% Acetic acid
<b>Reconstitution</b>	Store at 2 to -8°C lyophilised, resuspend in 0.1% actetic acid

### General Info

<b>Function</b>	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 them to respond to BMP4 in a paracrine and/or autocrine fashion. BMP4 signaling in the mesenchyme, in turn, triggers epithelial outgrowth and
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augments MSX2 expression, which causes the mammary mesenchyme to inhibit hair follicle formation within the nipple sheath (By similarity). Promotes colon cancer cell migration and invasion in an integrin alpha-6/beta-1-dependent manner through activation of Rac1. Osteostatin is a potent inhibitor of osteoclastic bone resorption.

<b>Tissue specificity</b>	Ubiquitous. Also expressed in the mammary gland.
<b>Involvement in disease</b>	Brachydactyly E2
<b>Sequence similarities</b>	Belongs to the parathyroid hormone family.
<b>Post-translational modifications</b>	There are 3 principal secretory forms, called PTHrP[1-36], PTHrP[38-94], and osteostatin (PTHrP[107-139]) arising from endoproteolytic cleavage of the initial translation product. Each of these secretory forms is believed to have one or more of its own receptors that mediates the normal paracrine, autocrine and endocrine actions.
<b>Cellular localization</b>	Cytoplasm. Nucleus. Secreted.

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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