

## Product datasheet

# Recombinant human Parathyroid Hormone protein ab201365

### Description

<b>Product name</b>	Recombinant human Parathyroid Hormone protein
<b>Biological activity</b>	Fully biologically active when compared to standard.  The ED <sub>50</sub> as determined by its ability to induce cAMP accumulation in murine MC3T3E1 cells is less than 50 ng/ml, corresponding to a specific activity of $> 2.0 \times 10^4$ IU/mg.
<b>Purity</b>	> 97 % SDS-PAGE. > 97 % by HPLC analysis.
<b>Expression system</b>	Escherichia coli
<b>Accession</b>	<b><u>P01270</u></b>
<b>Protein length</b>	Full length protein
<b>Animal free</b>	No
<b>Nature</b>	Recombinant
<b>Species</b>	Human
<b>Sequence</b>	SVSEIQLMHNLGKHLNSMERVEWLRKKLQDVHNFVALGA PLAPRDAGSQR PRKKEDNVLVESHEKSLGEADKADVNVLTAKSQ
<b>Predicted molecular weight</b>	9 kDa
<b>Amino acids</b>	32 to 115
<b>Additional sequence information</b>	Single non-glycosylated polypeptide chain containing 84 amino acids. 15N Stable Isotope labeled. This product is for the mature full length protein. The signal peptide and propeptide are not included.

### Specifications

Our **Abpromise guarantee** covers the use of **ab201365** 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>	Functional Studies  HPLC  SDS-PAGE
<b>Form</b>	Lyophilized

## Preparation and Storage

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### Stability and Storage

Shipped at 4°C. Store at -20°C long term. Avoid freeze / thaw cycle.

pH: 7.40

Constituent: 100% PBS

Lyophilized from a 0.2µm filtered solution.

This product is an active protein and may elicit a biological response in vivo, handle with caution.

### Reconstitution

Briefly centrifuge the vial prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1% BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at <-20°C. Further dilutions should be made in appropriate buffered solutions.

## General Info

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### Function

PTH elevates calcium level by dissolving the salts in bone and preventing their renal excretion. Stimulates [1-14C]-2-deoxy-D-glucose (2DG) transport and glycogen synthesis in osteoblastic cells.

### Involvement in disease

Defects in PTH are a cause of familial isolated hypoparathyroidism (FIH) [MIM:146200]; also called autosomal dominant hypoparathyroidism or autosomal dominant hypocalcemia. FIH is characterized by hypocalcemia and hyperphosphatemia due to inadequate secretion of parathyroid hormone. Symptoms are seizures, tetany and cramps. FIH exist both as autosomal dominant and recessive forms of hypoparathyroidism.

### Sequence similarities

Belongs to the parathyroid hormone family.

### Cellular localization

Secreted.

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

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