

## Overview

<b>Synonyms</b>	Parathyroid Hormone 7-34 ( PTH 7-34 ) , Human;
<b>Description</b>	Polypeptide hormones secreted by the parathyroid glands, which promote release of calcium from bone to extracellular fluid by activating osteoblasts and inhibiting osteoclasts, indirectly promote increased intestinal absorption of calcium, and promote renal tubular reabsorption of calcium and increased renal excretion of phosphates. It is a major regulator of bone metabolism. Secretion of parathyroid hormone increases when the level of calcium in the extracellular fluid is low. Its action is opposed by calcitonin.
<b>Species</b>	Human
<b>Source</b>	<i>E. coli</i>
<b>Biological Activity</b>	Fully biologically active when compared to standard. The specific activity is determined by UMR106 cell/cAMP method, corresponding to a specific activity of $> 1.0 \times 10^4$ IU/mg.
<b>Sequence</b>	LMHNLGKHLNSMERVEWLRKKLQDVHNF

## Properties

<b>Measured Molecular Weight</b>	Approximately 3.4 kDa, a single non-glycosylated polypeptide chain containing 28 amino acids.
<b>Purity</b>	$> 97\%$ by SDS-PAGE and HPLC analyses.
<b>Formulation</b>	Lyophilized from a 0.2 $\mu$ m filtered concentrated solution in PBS, pH 7.4.
<b>Reconstitution</b>	We recommend that this vial be briefly centrifuged 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 $-20^\circ\text{C}$ . Further dilutions should be made in appropriate buffered solutions.
<b>Endotoxin Level</b>	Less than 1 EU/ $\mu$ g of rHuPTH7-34 as determined by LAL method.
<b>Physical Appearance</b>	Sterile Filtered White lyophilized (freeze-dried) powder.
<b>Usage</b>	This material is for research, laboratory or further evaluation purposes. NOT FOR HUMAN USE.
<b>Storage</b>	This lyophilized preparation is stable at $2-8^\circ\text{C}$ , but should be kept at $-20^\circ\text{C}$ for long term storage, preferably desiccated. Upon reconstitution, the preparation is stable for up to one week at $2-8^\circ\text{C}$ . For maximal stability, apportion the reconstituted preparation into working aliquots and store at $-20^\circ\text{C}$ to $-70^\circ\text{C}$ . <b>Avoid repeated freeze/thaw cycles.</b>

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