

Rev04  
Update: Mar,01,2022

**DATASHEET**

# PTH (1-34aa), Human

Cat. No.: Z02792

## Product Introduction

<b>Species</b>	Human
<b>Protein Construction</b>	<b>PTH (Ser32-Phe65) Accession # P01270</b>
<b>Purity</b>	> 97% as analyzed by SDS-PAGE > 97% as analyzed by HPLC
<b>Endotoxin Level</b>	< 1 EU/μg of protein by LAL method
<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 50.0 ng/ml, corresponding to a specific activity of > 2.0 × 10 <sup>4</sup> IU/mg.
<b>Expression System</b>	E. coli
<b>Theoretical Molecular Weight</b>	4.1 kDa
<b>Formulation</b>	Lyophilized from a 0.2 μm filtered solution in PBS, pH 7.0.
<b>Reconstitution</b>	It is recommended that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute the lyophilized powder in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/ml.
<b>Storage &amp; Stability</b>	Upon receiving, this product remains stable for up to 6 months at -70°C or -20°C. Upon reconstitution, the product should be stable for up to 1 week at 4°C or up to 3 months at -20°C. Avoid repeated freeze-thaw cycles.

## Background

**Target Background :** 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.

**Synonyms :** Parathyroid Hormone

For laboratory research use only. Direct human use, including taking orally and injection and clinical use are forbidden.