

## PTH

### Recombinant Human Parathyroid Hormone (aa 7-34)

|                                 |   |                  |                           |
|---------------------------------|---|------------------|---------------------------|
| <b>Catalog No.</b>              | CSI20136A<br>CSI20136B<br>CSI20136C   | <b>Quantity:</b> | 20 µg<br>100 µg<br>1.0 mg |
| <b>Alternate Names:</b>         | PTH1, PTh   |                  |                           |
| <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>Physical Appearance:</b>     | Sterile Filtered White lyophilized (freeze-dried) powder.   |                  |                           |
| <b>Gene ID:</b>                 | 5741  |                  |                           |
| <b>Source:</b>                  | <i>E. coli</i>  |                  |                           |
| <b>Molecular Weight:</b>        | Approximately 3.4 kDa   |                  |                           |
| <b>Formulation:</b>             | Lyophilized from a 0.2 µm sterile filtered solution of PBS, pH 7.0 containing 4% mannitol.  |                  |                           |
| <b>Purity:</b>                  | >97% by SDS-PAGE and HPLC analyses.   |                  |                           |
| <b>Endotoxin Level:</b>         | Less than 1EU/µg of rHuPTH7-34 as determined by LAL method.   |                  |                           |
| <b>Biological Activity:</b>     | Fully biologically active when compared to standard. The specific activity is determined by UMR106 cell/cAMP method   |                  |                           |
| <b>Specific Activity:</b>       | > 1.0 x 10 <sup>4</sup> Units/mg  |                  |                           |
| <b>Amino Acid Sequence:</b>     | LMHNLGKHLN SMERVEWLRK KLQDVHNF  |                  |                           |
| <b>Reconstitution:</b>          | <b>Centrifuge vial prior to opening.</b> Add sterile distilled water or aqueous buffer to a concentration of 0.1-1.0 mg/mL. Further dilutions should be made in appropriate buffered solutions.   |                  |                           |
| <b>Storage &amp; Stability:</b> | This lyophilized preparation is stable at 2-4°C, but should be kept desiccated at -20°C for long term storage. Upon reconstitution, the preparation is stable for up to one week at 2 -4°C. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20°C to -80°C. <b>Avoid repeated freeze/thaw cycles.</b>   |                  |                           |

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