



SHANGHAI GENOMICS

Recombinant Human PTH(1-34)

**rHuPTH-34**

Catalog number: SG3110-44

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### *Specifications and Use*

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| <b>Source</b>              | <ul style="list-style-type: none"><li>● <i>Escherichia coli</i>.</li></ul>  |
| <b>Molecular Mass</b>      | <ul style="list-style-type: none"><li>● 4.1kDa</li></ul>  |
| <b>Purity</b>              | <ul style="list-style-type: none"><li>● <math>\geq 98\%</math> as determined by SDS-PAGE and HPLC analyses.</li></ul>   |
| <b>Biological Activity</b> | <ul style="list-style-type: none"><li>● rHuPTH-34 is fully biologically active when compared to standards. Its specific activity is <math>\geq 1 \times 10^4</math> units/mg.</li></ul>   |
| <b>Endotoxin Level</b>     | <ul style="list-style-type: none"><li>● Less than 10EU/mg of rHuPTH-34 as determined by LAL method.</li></ul>   |
| <b>Formulation</b>         | <ul style="list-style-type: none"><li>● Sterile filtered lyophilized (freeze-dried) powder</li></ul>  |
| <b>Solubility</b>          | <ul style="list-style-type: none"><li>● It is recommended to reconstitute the lyophilized rHuPTH34 in sterile distilled H<sub>2</sub>O to prepare a stock solution of no less than 100 g/ml of the cytokine.</li></ul>  |
| <b>Stability</b>           | <ul style="list-style-type: none"><li>● The lyophilized rHuPTH-34 powder, though stable at room temperature, is best kept desiccated below 0°C.</li><li>● Reconstituted rHuPTH-34 aliquots should be stored at -20°C for maximal stability up to six months.</li><li>● Avoid repeated freeze-thaw cycles.</li></ul> |
| <b>Usage</b>               | <ul style="list-style-type: none"><li>● FOR RESEARCH USE ONLY. NOT FOR HUMAN USE.</li></ul>   |

### ***Human PTH-34***

Human PTH-34 is the primary regulator of calcium and phosphate metabolism in bone and kidney. Physiological actions of PTH-34 include regulation of bone metabolism, renal tubular re-absorption of calcium and phosphate, and intestinal calcium absorption. Recombinant Human PTH-34 is a soluble 4.1kDa polypeptide containing 34 amino acid residues, which comprises 1-34 N-terminal amino acids of the mature human parathyroid hormone protein.