

Product: Parathyroid Hormone (PTH) 1-34, human, recombinant
Catalog #: 12-4219A
Amount: 50 µg

DESCRIPTION: Recombinant human Parathyroid Hormone (rHuPTH), 1-34
rHuPTH is a single, non-glycosylated, polypeptide chain containing 34 amino acids and having a molecular mass of 4117.8 Dalton.
The sequence of the first five N-terminal amino acids was determined and was found to be Ser-Val-Ser-Glu-Ile.
The amino acid composition is as follows:
Ser-Val-Ser-Glu-Ile-Gln-Leu-Met-His-Asn-Leu-Gly-Lys-His-Leu-Asn-Ser-Met-Glu-Arg-Val-Glu-Trp-Leu-Arg-Lys-Lys-Leu-Gln-Asp-Val-His-Asn-Ph

SOURCE: *Escherichia coli*

PURITY: > 98%, as determined by:
(a) Analysis by RP-HPLC and anion-exchange FPLC
(b) Analysis by reducing and non-reducing SDS-PAGE Silver Stained gel

ENDOTOXIN: < 0.1 ng/µg (IEU/µg) of rHuPTH

DIMERS & AGGREGATES: < 1% as determined by silver stained SDS-PAGE gel analysis

PROTEIN CONTENT: Protein quantitation was carried out by 2 independent methods:
- UV spectroscopy at 280 nm
- Analysis by RP-HPLC, using a standard solution of HuPTH as a Reference Standard

FORM: Purified, in 1.15mg sodium citrate, sodium chloride 7.31mg, 0.21mg citric acid, 0.1117 EDTA-Na₂, 0.2mg Tween 80 and 50mg Mannitol, containing 0.1 % BSA

STORAGE: -20°C (aliquot), avoid freezing and thawing cycles

BIOLOGICAL ACTIVITY: rHuPTH is fully biologically active when compared to standards.
The activity calculated by UMR106 cell/cAMP method corresponding to a specific activity of 1.0 x 10⁴ Units/mg.

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