

Recombinant Human Parathyroid Hormone Ultra Pure

Catalog No:	CRH204A CRH204B CRH204C	Size: 100 µg Size: 250 µg Size: 1.0 mg
Description:	Recombinant Human Parathyroid Hormone produced in <i>E.Coli</i> is a single, non-glycosylated, polypeptide chain containing 34 amino acids and having a molecular mass of 4117.8 Dalton. Recombinant Human Parathyroid Hormone is purified by proprietary chromatographic techniques.	
Source:	<i>Escherichia Coli</i> .	
Physical Appearance:	Sterile filtered white lyophilized (freeze-dried) powder.	
Formulation:	The protein (1mg/ml) was lyophilized after extensive dialyses against 1.15mg sodium citrate, sodium chloride 7.31 mg, 0.21 mg citric acid, 0.1117 EDTA-Na ₂ , 0.2 mg Tween 80 and 50 mgs Mannitol.	
Solubility:	It is recommended to reconstitute the lyophilized recombinant Human Parathyroid Hormone in sterile ddH ₂ O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.	
Stability:	Lyophilized recombinant Human Parathyroid Hormone although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution recombinant Human Parathyroid Hormone should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.	
Purity:	Greater than 98.0% as determined by: (a) Analysis by RP-HPLC. (b) Anion-exchange FPLC. (c) Analysis by reducing and non-reducing SDS-PAGE Silver Stained.	
Amino Acid Sequence:	The sequence of the first five N-terminal amino acids was determined and was found to be Ser-Val-Ser-Glu-Ile.	
Dimers and Aggregates:	Less than 1% as determined by silver-stained SDS-PAGE gel analysis.	
Biological Activity:	Recombinant Human Parathyroid Hormone 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 10 ⁴ Units/mg.	
Endotoxin:	Less than 0.1 ng/µg (IEU/µg) of recombinant Human Parathyroid Hormone.	
Protein Content:	Protein quantitation was carried out by two independent methods: 1. UV spectroscopy at 280 nm. 2. Analysis by RP-HPLC, using a calibrated solution of Parathyroid Hormone as a Reference Standard.	

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