

Recombinant Human Parathyroid Hormone 1-84 Reference standard

Cat. No. PTH1-199H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	The reference Standard for Parathyroid Hormone 1-84 for the calibration of assays to control the quality and potency of PTH 1-84 used in the treatment of osteoporosis, and for the calibration of immunoassays used in the diagnosis of disorders of calcium metabolism. The ampouled preparation contains recombinant human parathyroid hormone 1-84, and was initially distributed as a Reference Reagent for immunoassay.
Species	Human
Enzyme Unit	Each ampoule contains 100 µg PTH 1-84.
Usage	No attempt should be made to weigh out any portion of the freeze-dried material prior to reconstitution. For practical purposes each ampoule contains the same quantity of PTH 1-84. The entire content of each ampoule should be completely dissolved in an accurately measured amount of diluent. No attempt should be made to weigh out portions of the freeze-dried powder. Suitable diluents are PBS, saline and most assay buffers. If the contents are to be diluted extensively, the addition of 0.05 – 0.1% protein (HSA or BSA) is recommended to minimise adsorption. The use of water to reconstitute ampoule contents is not recommended. The material has not been sterilized and the ampoules contain no bacteriostat.
Notes	This preparation is not for administration to humans. The material is not of human or bovine origin. As with all materials of biological origin, this preparation should be regarded as potentially hazardous to health. It should be used and discarded

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according to your own laboratorys safety procedures. Such safety procedures should include the wearing of protective gloves and avoiding the generation of aerosols. Care should be exercised in opening ampoules or vials, to avoid cuts.

Stability

They remain valid with the assigned potency and status until withdrawn or amended. Reference materials are held at Creative Biomart within assured, temperature-controlled storage facilities. Reference Materials should be stored on receipt as indicated on the label. Once reconstituted, diluted or aliquoted, users should determine the stability of the material according to their own method of preparation, storage and use. Users who have data supporting any deterioration in the characteristics of any reference preparation are encouraged to contact Creative Biomart.

Storage

Unopened ampoules should be stored at -20°C. Please note: because of the inherent stability of lyophilized material, Creative Biomart may ship these materials at ambient temperature.

GENE INFORMATION

Gene Name	PTH parathyroid hormone [Homo sapiens];
Official Symbol	PTH1
Synonyms	parathyroid hormone; parathyrin; prepro-PTH; parathormone; parathyroid hormone 1; preproparathyroid hormone
Gene ID	5741
mRNA Refseq	NM_000315
Protein Refseq	NP_000306

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MIM	168450
UniProt ID	P01270
Chromosome Location	11p15.3-p15.1
Pathway	Class B/2 (Secretin family receptors), organism-specific biosystem; G alpha (s) signalling events, organism-specific biosystem; GPCR ligand binding, organism-specific biosystem
Function	RNA polymerase II distal enhancer sequence-specific DNA binding transcription factor activity; hormone activity; peptide hormone receptor binding

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