

## PTHrP N15 Human

**Description:** PTHrP N15 Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 86 amino acids, having an MW of 10033 Da labeled by the stable isotope N15. The PTHrP is purified by proprietary chromatographic techniques.

**Catalog #:** HOPS-012

For research use only.

**Synonyms:** Parathyroid Hormone 2, PTH2, TIPF39, Tuberoinfundibular 39 Residue Protein.

**Source:** Escherichia Coli.

**Physical Appearance:** Sterile Filtered White lyophilized (freeze-dried) powder.

**Amino Acid Sequence:** AVSEHQLLHD KGKSIQDLRR RFFLHHLIAE IHTAEIRATS  
EVSPNSKPSPT NTKNHPVRFG SDDEGRYLTQ ETNKVETYKE QPLKTP.

**Purity:** Greater than 95.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.

**Formulation:**

PthRp N15 protein was lyophilized from a 0.2

**Stability:**

Lyophilized PTHrP N15 although stable at room temperature for 3 weeks, should be stored desiccated below -18C. Upon reconstitution PTHrP N15 should be stored at 4C between 2-7 days and for future use below -18C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

**Usage:**

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

**Solubility:**

It is recommended to be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in 10mM HAc to a concentration of 0.1-1.0 mg/mL. Further dilutions should be made in appropriate buffered solutions.

**Introduction:**

PTHrP is a powerful and discriminating agonist of PTH2R which takes part in adenylyl cyclase activation and intracellular calcium levels elevation. PTHrP encourages protein kinase C beta activation, recruitment of beta-arrestin and PTH2R internalization. Additionally, PTHrP inhibits cell proliferation through its contribution to PTH2R activation, activates nociceptors and nociceptive circuits and acts as a neuropeptide in spermatogenesis.

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