

PTH1R Protein, Human (HEK293, His)

Cat. No.:	HY-P71244
Synonyms:	Parathyroid hormone/parathyroid hormone-related peptide receptor; PTH/PTHrP type I receptor; PTH/PTHr receptor; Parathyroid hormone 1 receptor; PTH1 receptor; PTH1R
Species:	Human
Source:	HEK293
Accession:	Q03431 (Y23-M189)
Gene ID:	5745
Molecular Weight:	25-35 kDa

PROPERTIES

AA Sequence	<p>Y A L V D A D D V M T K E E Q I F L L H R A Q A Q C E K R L K E V L Q R P A S I</p> <p>M E S D K G W T S A S T S G K P R K D K A S G K L Y P E S E E D K E A P T G S R</p> <p>Y R G R P C L P E W D H I L C W P L G A P G E V V A V P C P D Y I Y D F N H K G</p> <p>H A Y R R C D R N G S W E L V P G H N R T W A N Y S E C V K F L T N E T R E R E</p> <p>V F D R L G M</p>
Biological Activity	Measured by its binding ability in a functional ELISA. When Recombinant Human PTH1R is used at 2 µg/mL, the concentration of biotinylated human PTHrP that produces 50% of the optimal binding response is found to 84.57 ng/mL.
Appearance	Lyophilized powder
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4 or 20 mM PB, 150 mM NaCl, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	<p>PTH1R belongs to the secretin class of G protein coupled receptors (GPCRs). PTH1R is involved in bone development and bone cell differentiation, and normally activated by parathyroid hormone (PTH) and parathyroid hormone-related peptide (PTHrP).</p> <p>PTH1R that is mainly expressed in cells of the osteoblastic lineage. PTH1R regulates bone metabolism, signaling mainly</p>
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through G_s and G_{q/11} G-proteins.
PTH1R is a critical regulator of skeletal development and homeostasis^{[1][2]}.

REFERENCES

[1]. Bryce W Pickard, et al. Type 1 parathyroid hormone receptor (PTH1R) nuclear trafficking: association of PTH1R with importin alpha1 and beta. *Endocrinology*. 2006 Jul;147(7):3326-32.

[2]. Xuekun Fu, et al. Al. Kindlin-2 regulates skeletal homeostasis by modulating PTH1R in mice. *Signal Transduct Target Ther*. 2020 Dec 26;5(1):297.

Caution: Product has not been fully validated for medical applications. For research use only.

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