

Datasheet for ABIN7597437

PTH1R Protein (AA 27-188) (Fc Tag)



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Overview

Quantity:	10 µg
Target:	PTH1R
Protein Characteristics:	AA 27-188
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This PTH1R protein is labelled with Fc Tag.

Product Details

Purpose:	Recombinant human PTH1R Protein with C-terminal human Fc tag
Sequence:	PTH1R(Asp27-Gly188) hFc(Glu99-Ala330)
Purity:	The purity of the protein is greater than 95 % as determined by SDS-PAGE and Coomassie blue staining.

Target Details

Target:	PTH1R
Alternative Name:	PTH1R (PTH1R Products)
Background:	<p>PFE, EKNS, PTHR, PTHR1</p> <p>The protein encoded by this gene is a member of the G-protein coupled receptor family 2. This protein is a receptor for parathyroid hormone (PTH) and for parathyroid hormone-like hormone (PTH1LH). The activity of this receptor is mediated by G proteins which activate adenylyl cyclase</p>

Target Details

and also a phosphatidylinositol-calcium second messenger system. Defects in this receptor are known to be the cause of Jansen's metaphyseal chondrodysplasia (JMC), chondrodysplasia Blomstrand type (BOCD), as well as enchondromatosis. Two transcript variants encoding the same protein have been found for this gene. [provided by RefSeq, May 2010]

Molecular Weight: predicted molecular mass of 44.8 kDa after removal of the signal peptide. The apparent molecular mass of PTH1R-hFc is 55-70 kDa due to glycosylation.

UniProt: [Q03431](#)

Pathways: [Regulation of Carbohydrate Metabolic Process](#)

Application Details

Application Notes: Extracellular Domain Proteins (ECD) can be used as:

- Immunogens for antibody drug development
- Reagents used for CAR-T positive cell monitoring
- Reagents for antibody screening and functional testing
- Reagents for antibody affinity measurement

Comment: The protein was made using HEK293 mammalian cell secretion expression system to ensure the close-to-native structures and post-translational modifications of the target protein.

Restrictions: For Research Use only

Handling

Format: Lyophilized

Buffer: Lyophilized from sterile PBS, pH 7.4. Normally 5 % – 8% trehalose is added as protectants before lyophilization.

Storage: -20 °C,-80 °C

Storage Comment: Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing).
Lyophilized proteins are shipped at ambient temperature.

Expiry Date: 12 months