

PRODUCT INFORMATION

CALCR Target

Synonyms CT-R; CTR; CTR1; C1A; Calcitonin receptor

Recombinant human CALCR Protein with C-**Description**

terminal human Fc tag

Delivery In Stock **Uniprot ID** P30988 **Expression Host HEK293**

Tag C-Human Fc tag

Molecular

Purity

Background

CALCR(Ala25-Tyr146) hFc(Glu99-Ala330) Characterization

The protein has a predicted molecular mass of **Molecular Weight** 40.6 kDa after removal of the signal peptide.

The purity of the protein is greater than 95% as determined by SDS-PAGE and Coomassie blue

staining.

Lyophilized from sterile PBS, pH 7.4. Normally 5 % – 8% trehalose is added as protectants before Formulation &

lyophilization. Please see Certificate of Analysis Reconstitution for specific instructions of reconstitution.

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). Storage & Shipping

Lyophilized proteins are shipped at ambient

temperature.

CALCR encodes the calcitonin receptor, a Gprotein coupled receptor (GPCR) that binds calcitonin, a hormone involved in calcium and bone homeostasis. CALCR primarily couples to Gs

proteins, stimulating adenylyl cycláse and increasing intracellular cAMP, and can also couple

to Gq/11 proteins to trigger phospholipase C signaling. It is expressed in osteoclasts, kidney, brain, and thyroid C-cells, where it regulates bone

resorption, calcium metabolism, and

neuroendocrine functions. CALCR is a therapeutic target for osteoporosis, Paget's disease, and other bone disorders, and is also studied in pain

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modulation and metabolic regulation.

Usage Research use only

Conjugate Unconjugated







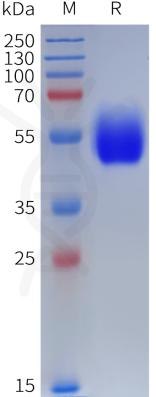
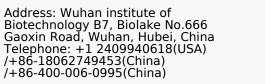


Figure 1. Human CALCR Protein, hFc Tag on SDS-PAGE under reducing condition.



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