

## HUMAN CALCA(85-141) PROTEIN, HFC TAG

**Cat.#:** 11727

**Product Name:** Human CALCA(85-141) Protein

**Size:** 10 µg, 50 µg and 100 µg

**Synonyms:** CALC1;CGRP;CGRP-alpha;CGRP-I;CGRP1;CT;KC;PCT

**Target:** CALCA

**UNIPROT ID:** P01258

**Description:** Recombinant Human CALCA(85-141) Protein with C-terminal human Fc tag

**Background:** This gene encodes the peptide hormones calcitonin, calcitonin gene-related peptide and katacalcin by tissue-specific alternative RNA splicing of the gene transcripts and cleavage of inactive precursor proteins. Calcitonin is involved in calcium regulation and acts to regulate phosphorus metabolism. Calcitonin gene-related peptide functions as a vasodilator and as an antimicrobial peptide while katacalcin is a calcium-lowering peptide. Multiple transcript variants encoding different isoforms have been found for this gene.[provided by RefSeq, Aug 2014]

**Species/Host:** HEK293

**Molecular Weight:** The protein has a predicted molecular mass of 32.4 kDa after removal of the signal peptide. The apparent molecular mass of CALCA(85-141)-hFc is approximately 35-55 kDa due to glycosylation.

**Molecular Characterization:** CALCA(Cys85-Asn141) hFc(Glu99-Ala330)

**Purity:** The purity of the protein is greater than 95% as determined by SDS-PAGE and Coomassie blue staining.

**Formulation & Reconstitution:** Lyophilized from nanodisc solubilization buffer (20 mM Tris-HCl, 150 mM NaCl, pH 8.0). Normally 5% – 8% trehalose is added as protectants before lyophilization.

**Storage & Shipping:** 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.



Figure 1. Human CALCA(85-141) Protein, hFc Tag on SDS-PAGE under reducing condition.