

**HUMAN CGRP PROTEIN, HFC TAG****Cat.#:** 11962**Product Name:** Human CGRP Protein**Size:** 10 µg, 50 µg and 100 µg**Synonyms:** CALC1;CALCA;CGRP- $\alpha$ ;CGRP-I;CGRP1;CT;KC;PCT**Target:** CGRP**UNIPROT ID:** P06881**Description:** Recombinant Human CGRP 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 29.9 kDa after removal of the signal peptide. The apparent molecular mass of CGRP-hFc is approximately 25–35 kDa due to glycosylation.**Molecular Characterization:** CGRP(Ala83–Phe119) 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 CGRP Protein, hFc Tag on SDS-PAGE under reducing condition.