

MOUSE CGRP PROTEIN, HFC TAG**Cat.#:** 12215**Product Name:** Mouse CGRP Protein**Size:** 10 µg, 50 µg and 100 µg**Synonyms:** CA;Ct;Ctn;Calc;Calca;CGRP1;Calc1;CGRP-1**Target:** CGRP**UNIPROT ID:** Q99JA0**Description:** Recombinant mouse CGRP protein with C-terminal human Fc tag**Background:** This gene encodes the peptide hormones calcitonin, calcitonin gene-related peptide (CGRP) and katacalcin. Alternative splicing of the mRNA results in multiple variants that encode either calcitonin or CGRP preproteins. Post-translational processing of the calcitonin and CGRP propeptides results in either calcitonin and katacalcin, or CGRP, respectively. Calcitonin and katacalcin modulate calcium levels in the blood stream. CGRP can function as a vasodilator and play a role in the transmission of pain. The human homolog of CGRP was found to have antimicrobial activity. [provided by RefSeq, Mar 2015]**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 mCGRP-hFc is approximately 25–35 kDa due to glycosylation.**Molecular Characterization:** Mouse CGRP(Ser83-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. Mouse CGRP Protein, hFc Tag on SDS-PAGE under reducing condition.