

**HUMAN CB2 PROTEIN, HFC TAG****Cat.#:** 11670**Product Name:** Human CB2 Protein**Size:** 10 µg, 50 µg and 100 µg**Synonyms:** CB-2;CB2;CX5**Target:** CB2**UNIPROT ID:** P34972**Description:** Recombinant Human CB2 Protein with C-terminal human Fc tag**Background:** The cannabinoid delta-9-tetrahydrocannabinol is the principal psychoactive ingredient of marijuana. The proteins encoded by this gene and the cannabinoid receptor 1 (brain) (CNR1) gene have the characteristics of a guanine nucleotide-binding protein (G-protein)-coupled receptor for cannabinoids. They inhibit adenylate cyclase activity in a dose-dependent, stereoselective, and pertussis toxin-sensitive manner. These proteins have been found to be involved in the cannabinoid-induced CNS effects (including alterations in mood and cognition) experienced by users of marijuana. The cannabinoid receptors are members of family 1 of the G-protein-coupled receptors. [provided by RefSeq, Jul 2008]**Species/Host:** HEK293**Molecular Weight:** The protein has a predicted molecular mass of 33.9 kDa after removal of the signal peptide. The apparent molecular mass of CB2-hFc is approximately 35-55 kDa due to glycosylation.**Molecular Characterization:** CB2(Met1-Lys33) (Asn93-Ala104) (Thr173-Asn188) (Ala270-Lys278) 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.

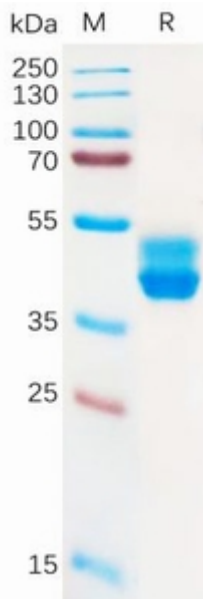


Figure 1. Human CB2 Protein, hFc Tag on SDS-PAGE under reducing condition.