

**MOUSE CB1 PROTEIN, HFC TAG****Cat.#:** 12179**Product Name:** Mouse CB1 Protein**Size:** 10 µg, 50 µg and 100 µg**Synonyms:** Cannabinoid receptor 1;CB-R;Cnr1**Target:** CB1**UNIPROT ID:** P47746**Description:** Recombinant mouse CB1 protein with C-terminal human Fc tag

**Background:** This gene encodes one of two cannabinoid receptors. The cannabinoids, principally delta-9-tetrahydrocannabinol and synthetic analogs, are psychoactive ingredients of marijuana. The cannabinoid receptors are members of the guanine-nucleotide-binding protein (G-protein) coupled receptor family, which inhibit adenylate cyclase activity in a dose-dependent, stereoselective and pertussis toxin-sensitive manner. The two receptors have been found to be involved in the cannabinoid-induced CNS effects (including alterations in mood and cognition) experienced by users of marijuana. Multiple transcript variants encoding two different protein isoforms have been described for this gene. [provided by RefSeq, May 2009]

**Species/Host:** HEK293

**Molecular Weight:** The protein has a predicted molecular mass of 39.4 kDa after removal of the signal peptide. The apparent molecular mass of mCB1-hFc is approximately 40–55 kDa due to glycosylation.

**Molecular Characterization:** Mouse CB1(Met1-Leu118) 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.

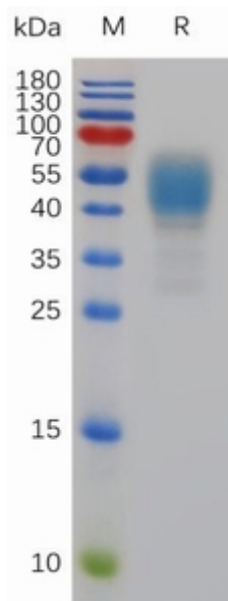


Figure 1. Mouse CB1 Protein, hFc Tag on SDS-PAGE under reducing condition.