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.

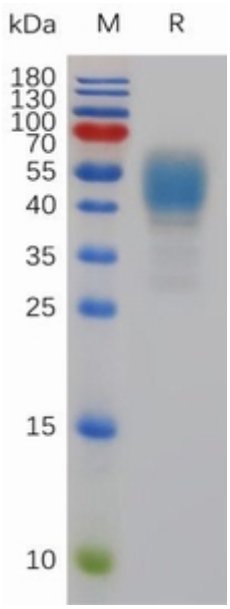

Figure 1. Mouse CB1 Protein, hFc Tag on SDS-PAGE under reducing condition.