

Product Description

Pioneering GTPase and Oncogene Product Development since 2010

HUMAN CB1 PROTEIN, HFC TAG

Cat.#: 11311

Product Name: Human CB1 Protein

Size: 10 µg, 50 µg and 100 µg

Synonyms: CANN6;CB-R;CB1;CB1A;CB1K5;CB1R;CNR

Target: CB1

UNIPROT ID: P21554

Description: Recombinant Human CB1 protein with C-terminal human Fc **Background:** This gene encodes one of two cannabinoid receptors. The

cannabinoids, principally delta-9-tetrahydrocannabinoid receptors. The 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 toxinsensitive 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.

Species/Host: HEK293

Molecular Weight: The protein has a predicted molecular mass of 44.2 kDa after removal of the signal peptide. The apparent molecular mass of CB1-hFc is approximately 70-100 kDa due to glycosylation.

Molecular Characterization: CBI(Met1-Gln116) (Asp176-Asn187) (Asn256-Glu273)

(Asp366-Thr377) 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.



Product Description

Pioneering GTPase and Oncogene Product Development since 2010

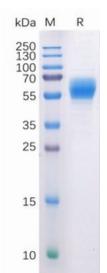


Figure 1. Human CB1 Protein, hFc Tag on SDS-PAGE under reducing condition.

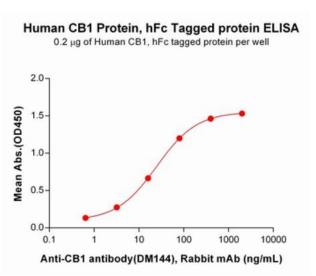


Figure 2. ELISA plate pre-coated by 2 µg/ml (100 µl/well) Human CB1 Protein, hFc Tag (11311) can bind Anti-CB1 antibody(DM144), Rabbit mAb in a linear range of 3.20-16 ng/mL.