

PRODUCT INFORMATION

Target	CB1
Synonyms	CANN6, CB-R, CB1, CB1A, CB1K5, CB1R, CNR
Description	Biotinylated Recombinant human CB1 (1-116) Protein with C-terminal Human Fc Avi tag
Delivery	In Stock
Uniprot ID	P21554
Expression Host	HEK293
Tag	C-Human Fc Avi tag
Molecular Characterization	CB1(Met1-Gln116) hFc(Glu99-Ala330) Avi tag
Molecular Weight	The protein has a predicted molecular mass of 41.1 kDa after removal of the signal peptide.
Purity	The purity of the protein is greater than 95% as determined by SDS-PAGE and Coomassie blue staining.
Formulation & Reconstitution	Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8% trehalose is added as protectants before lyophilization. Please see Certificate of Analysis for specific instructions of reconstitution.
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.
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.
Usage	Research use only
Conjugate	Biotinylated



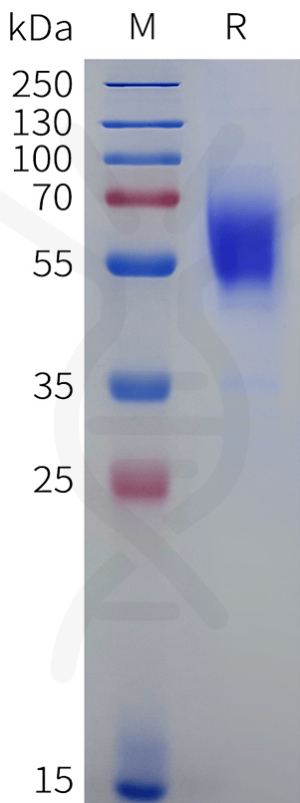


Figure 1. Biotinylated Human CB1 (1-116) Protein, hFc Tag on SDS-PAGE under reducing condition.

**Biotinylated Human CB1 (1-116), hFc Tagged Protein ELISA**  
0.2  $\mu$ g of Anti-CB1 antibody(DM144), Rabbit mAb per well

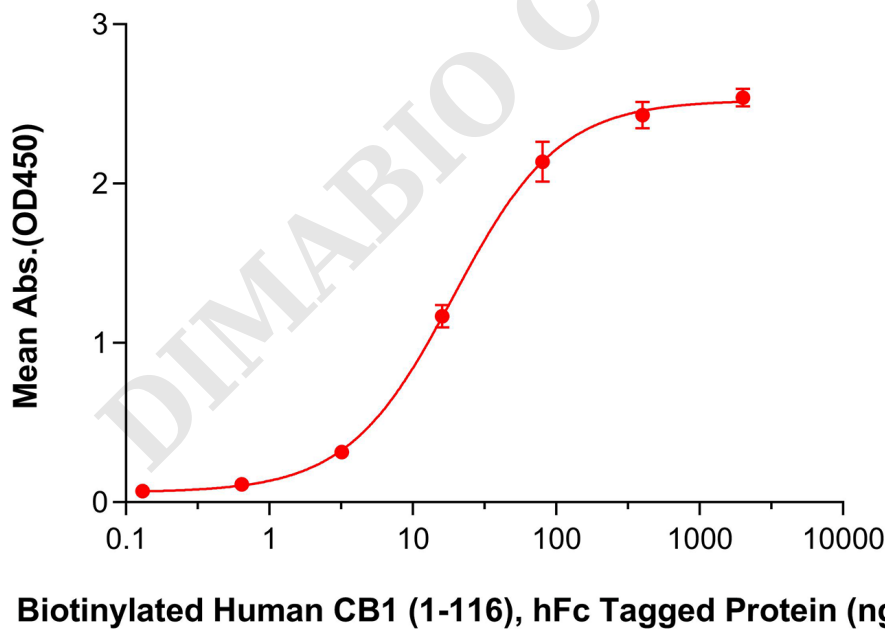


Figure 2. ELISA plate pre-coated by 2  $\mu$ g/mL (100  $\mu$ L/well) Anti-CB1 antibody(DM144), Rabbit mAb (DME100144) can bind Biotinylated Human CB1 (1-116) Protein, hFc Tag (PME100507B) in a linear range of 3.2-16 ng/mL. In order to specifically detect PME100507B, HRP Conjugated Streptavidin was used as detection antibody.

