

**PRODUCT INFORMATION**

<b>Target</b>	CB1
<b>Synonyms</b>	CANN6; CB-R; CNR1; CB1A; CB1K5; CB1R; CNR
<b>Description</b>	Human CB1 full length protein-synthetic nanodisc
<b>Delivery</b>	In Stock
<b>Uniprot ID</b>	P21554
<b>Expression Host</b>	HEK293
<b>Protein Families</b>	GPCR
<b>Protein Pathways</b>	Neuroactive ligand-receptor interaction
<b>Molecular Weight</b>	The human full length CB1 Protein has a MW of 52.7 kDa
<b>Formulation &amp; Reconstitution</b>	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. Please see Certificate of Analysis for specific instructions. Do not use solvents with pH lower than 6.5 in subsequent experiments.
<b>Storage &amp; Shipping</b>	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.
<b>Background</b>	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.
<b>Usage</b>	Research use only



**ELISA assay to evaluate CB1-Nanodisc**  
0.2µg Human CB1-Nanodisc per well

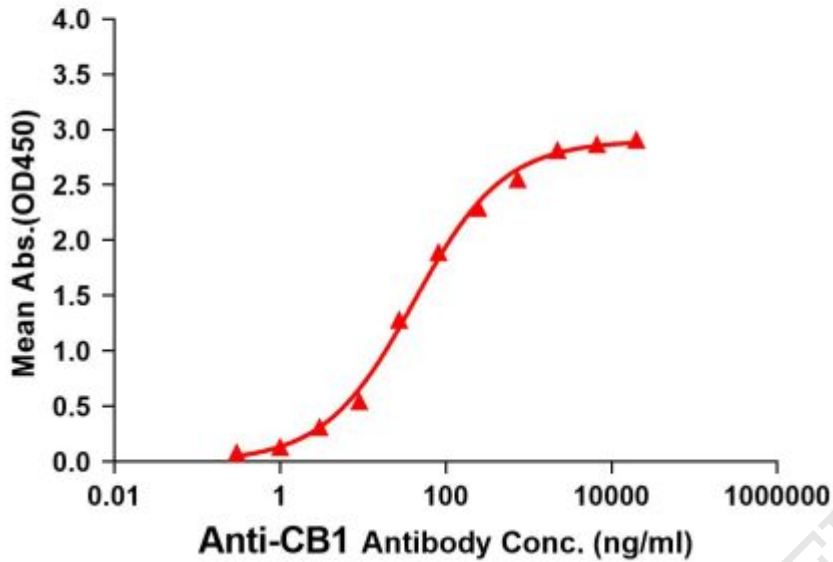


Figure1. Elisa plates were pre-coated with Flag Tag CB1-Nanodisc (0.2µg/per well). Serial diluted anti-CB1 monoclonal antibody (DME100144) solutions were added, washed, and incubated with secondary antibody before Elisa reading. From above data, the EC50 for anti-CB1 monoclonal antibody binding with CB1-Nanodisc is 41.62ng/ml.

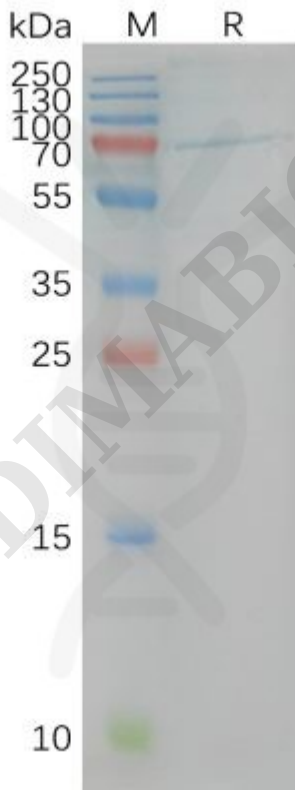


Figure2. Human CB1-Nanodisc, Flag Tag on SDS-PAGE

