

HUMAN CB1 FULL LENGTH PROTEIN

Cat.#: 11007

Product Name: Human CB1 Full Length Protein

Size: 10 µg, 50 µg and 100 µg

Synonyms: CANN6; CB-R; CNR1; CB1A; CB1K5; CB1R; CNR

Target: CB1

UNIPROT ID: P21554

Description: Human CB1 full length protein-synthetic nanodisc

Background: 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.

Species/Host: HEK293

Molecular Weight: The human full length CB1 Protein has a MW of 52.7 kDa

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.

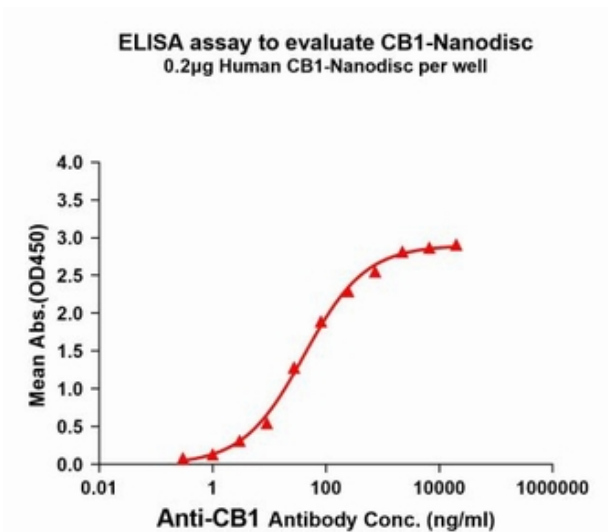


Figure1. Elisa plates were pre-coated with Flag Tag CB1-Nanodisc (0.2 µg/per well). Serial diluted anti-CB1 monoclonal antibody (28488) solutions were added, washed, and incubated with secondary antibody before Elisa reading. From above data, the EC50 for anti-CB1 monoclonal antibody binding with CB1-Nanodisc is 41.62ng/ml.

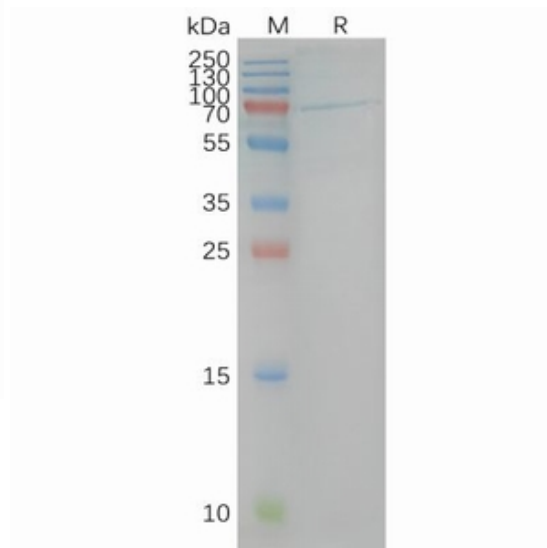


Figure2. Human CB1-Nanodisc, Flag Tag on SDS-PAGE