

HUMAN CB2 FULL LENGTH PROTEIN

Cat.#: 11119

Product Name: Human CB2 Full Length Protein

Size: 10 µg, 50 µg and 100 µg

Synonyms: CB-2; CNR2; CX5

Target: CB2

UNIPROT ID: P34972

Description: Human CB2 full length protein-synthetic nanodisc

Background: The cannabinoid delta-9-tetrahydrocannabinol is the principal psychoactive ingredient of marijuana. The proteins encoded by this gene and the cannabinoid receptor 1 (brain) (CNR1) gene have the characteristics of a guanine nucleotide-binding protein (G-protein)-coupled receptor for cannabinoids. They inhibit adenylate cyclase activity in a dose-dependent, stereoselective, and pertussis toxin-sensitive manner. These proteins have been found to be involved in the cannabinoid-induced CNS effects (including alterations in mood and cognition) experienced by users of marijuana. The cannabinoid receptors are members of family 1 of the G-protein-coupled receptors.

Species/Host: HEK293

Molecular Weight: The human full length CB2 protein has a MW of 39.7 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.

ELISA assay to evaluate CB2-Nanodisc
0.2µg Human CB2-Nanodisc per well

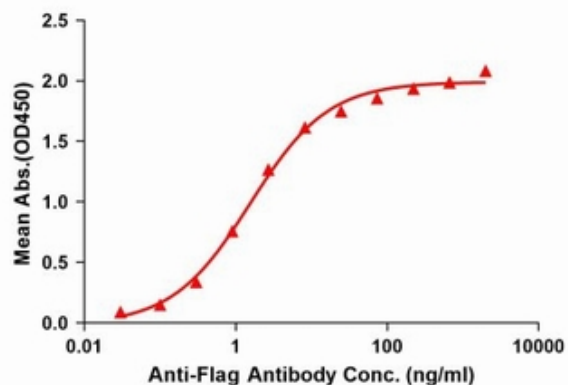


Figure1. Elisa plates were pre-coated with Flag Tag CB2-Nanodisc (0.2 µg/per well). Serial diluted anti-Flag monoclonal antibody solutions were added, washed, and incubated with secondary antibody before Elisa reading. From above data, the EC50 for anti-Flag monoclonal antibody binding with CB2-Nanodisc is 1.557ng/ml.



Figure2. Human CB2-Nanodisc, Flag Tag on SDS-PAGE