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Product datasheet for TP721383

CB1 Human Recombinant Protein, Membrane Nanoparticle

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant Human CB1 full length protein-Membrane Nanoparticle, 50µg
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	C-terminal Flag tagged overexpression cDNA clone
Tag:	C-term Flag Tag
Predicted MW:	The human full length CB1 Protein has a MW of 52.7 kDa
Concentration:	Please refer to the Certificate of Analysis (COA) for the lot-specific concentration before lyophilization.
Buffer:	Lyophilized from sterile PBS, pH 7.4. Normally 5% - 8% trehalose is added as protectants before lyophilization.
Reconstitution Method:	1. Before opening the tube cap, centrifuge the sample tube at 5000g for 3-5min at room temperature to ensure the lyophilized sample settles down at the bottom of the tube. 2. Calculate the volume for reconstitution (in µL) using the formula: [Quantity (mg)/Concentration (mg/mL)]x1000 3. Dissolve the lyophilized protein sample in sterile water based on the calculated volume (µL) 4. After adding sterile water, cover the lid and mix by gently tapping the tube 5-10 times. Note: Do not vortex or vigorously pipette the sample.
Storage:	Store at -20°C to -80°C for 12 months in lyophilized form.
Stability:	After reconstitution, if not intended for use within a month, aliquot and store at -80°C . Avoid repeated freezing and thawing.
Locus ID:	1268
UniProt ID:	P21554
Synonyms:	CANN6; CB-R; CNR1; CB1A; CB1K5; CB1R; CNR
Protein Families:	Transmembrane
Protein Pathways:	Neuroactive ligand-receptor interaction

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Product images:

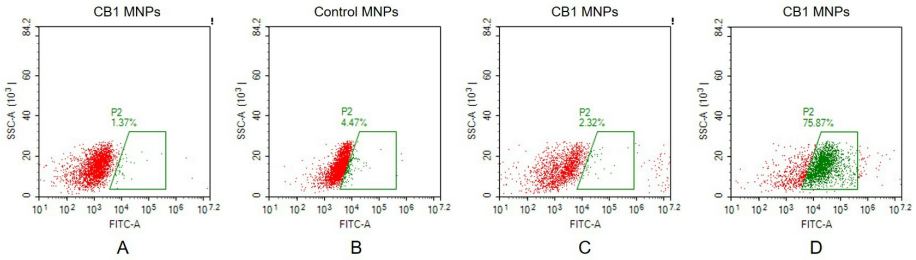

Figure 2. FACS analysis of CB1 MNPs A. Negative Control 1: CB1 full length membrane nanoparticles samples were stained only with Goat anti-human IgG 488 secondary antibody. B. Negative Control 2: Control membrane nanoparticles samples were stained with anti-CB1 antibody at 2µg/mL, followed by Goat anti-human IgG 488 secondary antibody. C. Negative Control 3: CB1 full length membrane nanoparticles samples were stained with anti-CCR8 antibody (an irrelevant antibody) at 2µg/mL, followed by Goat anti-human IgG 488 secondary antibody. D. CB1 full length membrane nanoparticles samples were stained with anti-CB1 antibody at 2µg/mL, followed by Goat anti-human IgG 488 secondary antibody.

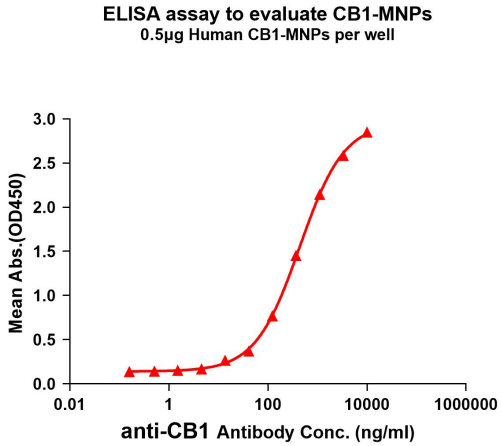

Figure 1. Elisa plates were pre-coated with 0.5µg/per well purified human CB1 full length membrane nanoparticles. Serial diluted anti-CB1 monoclonal antibody solutions were added, washed, and incubated with secondary antibody before Elisa reading. From above data, the EC50 for anti-CB1 monoclonal antibody binding with CB1 full length membrane nanoparticles is 439.6ng/ml.