

## HUMAN CHRM2 FULL LENGTH PROTEIN

**Cat.#:** 11092

**Product Name:** Human CHRM2 Full Length Protein

**Size:** 10 µg; 50 µg and 100 µg

**Synonyms:** HM2

**Target:** CHRM2

**UNIPROT ID:** P08172

**Description:** Human CHRM2 Full Length Protein-Synthetic Nanodisc

**Background:** The muscarinic cholinergic receptors belong to a larger family of G protein-coupled receptors. The functional diversity of these receptors is defined by the binding of acetylcholine to these receptors and includes cellular responses such as adenylate cyclase inhibition, phosphoinositide degeneration, and potassium channel mediation. Muscarinic receptors influence many effects of acetylcholine in the central and peripheral nervous system. The muscarinic cholinergic receptor 2 is involved in mediation of bradycardia and a decrease in cardiac contractility. Multiple alternatively spliced transcript variants have been described for this gene. [provided by RefSeq, Jul 2008]

**Species/Host:** HEK293

**Molecular Weight:** The human full length CHRM2 protein has a MW of 51.7 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.

**Protein Families:** Druggable Genome, GPCR, Transmembrane

**Protein Pathways:** Calcium signaling pathway, Neuroactive ligand-receptor interaction, Regulation of actin cytoskeleton

### ELISA assay to evaluate CHRM2-Nanodisc 0.2µg Human CHRM2-Nanodisc per well

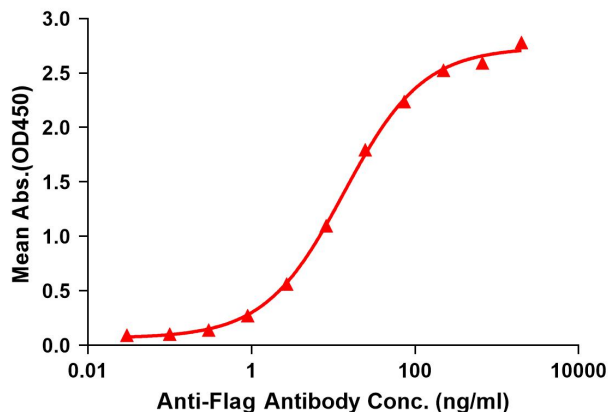


Figure 1. Elisa plates were pre-coated with Flag Tag CHRM2-Nanodisc (0.2µg/per well). Serial diluted anti-Flag monoclonal antibody solutions were added, washed, and incubated with secondary antibody before Elisa reading. From above data, the EC50 for anti-Flag monoclonal antibody binding with CHRM2-Nanodisc is 13.52ng/ml.



Figure 2. Human CHRM2-Nanodisc, Flag Tag on SDS-PAGE