

PRODUCT INFORMATION

C-Flag Tag Tag CHRM2 **Target Synonyms** HM₂

Human CHRM2 full length protein-synthetic **Description**

nanodisc **Delivery** 3-4 weeks **Uniprot ID** P08172 **Expression Host HEK293**

Protein Families Druggable Genome, GPCR, Transmembrane

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

cytoskeleton

The human full length CHRM2 protein has a MW **Molecular Weight**

of 51.7 kDa

Lyophilized from nanodisc solubilization buffer (20 mM Tris-HCl, 150 mM NaCl, pH 8.0). Normally 5% Formulation & 8% trehalose is added as protectants before Reconstitution lyophilization. Please see Certificate of Analysis

for specific instructions of reconstitution. 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 Storage & Shipping at -80°C (Avoid repeated freezing and thawing).

Lyophilized proteins are shipped at ambient

temperature.

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]

Usage Research use only Conjugate Unconjugated

Background









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

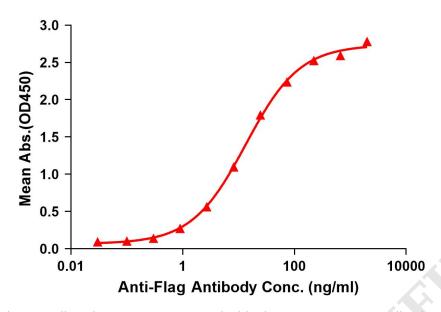


Figure 1. Elisa plates were pre-coated with Flag Tag CHRM2-Nanodisc ($0.2\mu g/per$ well). Serial diluted anti-Flag monoclonal antibody solutions were added, washed, and incubated with secondary antibody before Elisa reading. From above data, the EC50 for anti-Flag monoclonal antibody binding with CHRM2-Nanodisc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

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

