

HUMAN MRGPRX2 FULL LENGTH PROTEIN

Cat.#: 11086

Product Name: Human MRGPRX2 Full Length Protein

Size: 10 µg; 50 µg and 100 µg

Synonyms: MGRG3; MRGX2

Target: MRGPRX2

UNIPROT ID: Q96LBI

Description: Human MRGPRX2 Full Length Protein-Synthetic Nanodisc

Background: Mast cell-specific receptor for basic secretagogues, i.e. cationic amphiphilic drugs, as well as endo- or exogenous peptides, consisting of a basic head group and a hydrophobic core. Recognizes and binds small molecules containing a cyclized tetrahydroisoquinoline (THIQ), such as non-steroidal neuromuscular blocking drugs (NMBDs), including tubocurarine and atracurium. In response to these compounds, mediates pseudo-allergic reactions characterized by histamine release, inflammation and airway contraction. Acts as a receptor for a number of other ligands, including peptides and alkaloids, such as cortistatin-14, proadrenomedullin N-terminal peptides PAMP-12 and, at lower extent, PAMP-20, antibacterial protein LL-37, PMX-53 peptide, beta-defensins, and complanadine A.

Species/Host: HEK293

Molecular Weight: The human full length MRGPRX2 protein has a MW of 37.1 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: N.A.

ELISA assay to evaluate MRGPRX2-Nanodisc 0.2µg Human MRGPRX2-Nanodisc per well

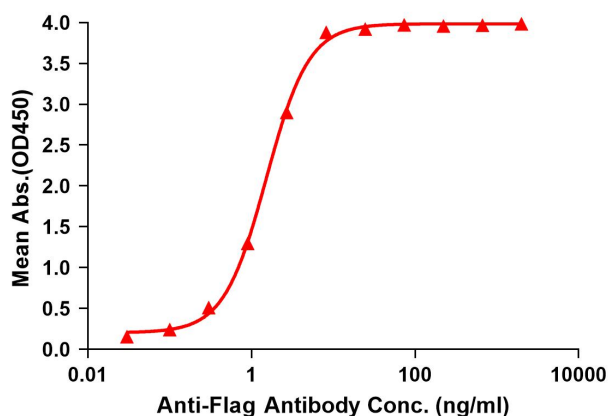


Figure 1. Elisa plates were pre-coated with Flag Tag MRGPRX2-Nanodisc (0.2µg/per well). Serial diluted anti-Flag monoclonal antibody solutions were added, washed, and incubated with secondary antibody before Elisa reading. From above data, the EC50 for anti-Flag monoclonal antibody binding with MRGPRX2-Nanodisc is 1.523ng/ml.

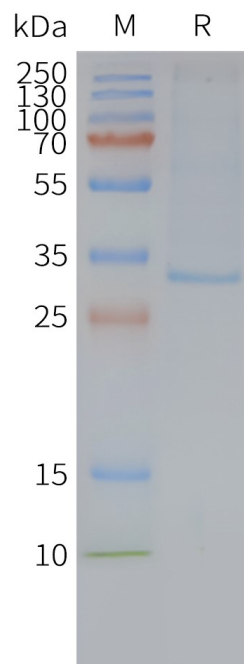


Figure 2. Human MRGPRX2-Nanodisc, Flag Tag on SDS-PAGE