

PRODUCT INFORMATION

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|---|---|
| Tag | C-Flag Tag |
| Target | MRGPRX2 |
| Synonyms | MGRG3; MRGX2 |
| Description | Human MRGPRX2 full length protein-synthetic nanodisc |
| Delivery | In Stock |
| Uniprot ID | Q96LB1 |
| Expression Host | HEK293 |
| Protein Families | Druggable Genome, GPCR, Transmembrane |
| Protein Pathways | N.A. |
| 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. Please see Certificate of Analysis for specific instructions. Do not use solvents with a pH below 6.5 or those containing high concentrations of divalent metal ions (greater than 5 mM) in subsequent experiments. |
| 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. |
| 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. |
| Usage | Research use only |
| Conjugate | Unconjugated |



ELISA assay to evaluate MRGPRX2-Nanodisc 0.2 μ g Human MRGPRX2-Nanodisc per well

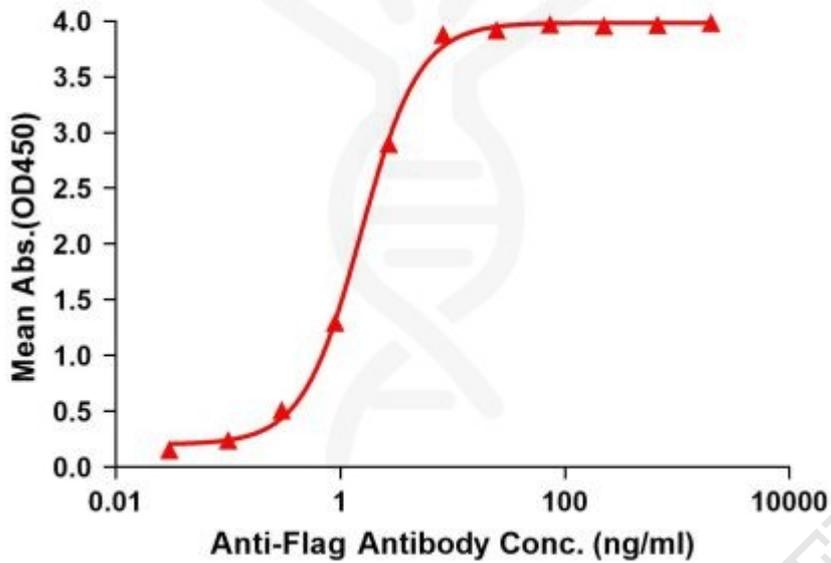


Figure1. Elisa plates were pre-coated with Flag Tag MRGPRX2-Nanodisc (0.2 μ g/per well). Serial diluted anti-Flag monoclonal antibody solutions were added, washed, and incubated with secondary antibody before Elisa reading. From above data, the EC50 for anti-Flag monoclonal antibody binding with MRGPRX2-Nanodisc is 1.523ng/ml.



Figure2. Human MRGPRX2-Nanodisc, Flag Tag on SDS-PAGE

