

PRODUCT INFORMATION

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| Target | CGRPR |
| Synonyms | CALCRL; CRLR; LMPHM8 |
| Description | Human CGRPR-RAMP1 full length protein membrane nanoparticles (MNPs) |
| Delivery | In Stock |
| Uniprot ID | Q16602 |
| Expression Host | HEK293 |
| Protein Families | Druggable Genome, GPCR, Transmembrane |
| Protein Pathways | Neuroactive ligand-receptor interaction, Vascular smooth muscle contraction |
| Molecular Weight | The human full length CGRPR protein has a MW of 53.0 kDa |
| Formulation & Reconstitution | Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8% trehalose is added as protectants before lyophilization. Please see Certificate of Analysis for specific instructions of reconstitution. |
| 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 | The CGRP receptor (CGRPR) is a member of family B G protein coupled receptors (GPCRs), is expressed throughout the trigeminal system, including neurons and endothelial cells. They usually function with accessory proteins such as receptor activity modifying proteins (RAMPs) and Na/H exchange regulatory factors (NHERFs). CGRPR is a heterodimer complex of the calcitonin receptor-like receptor (CRLR) and receptor activity-modifying protein 1 (RAMP1). Therapeutics for migraine treatment are mostly targeting CRLR-RAMP1 protein-protein interaction surfaces, thereby blocking CGRP activity. |
| Usage | Research use only |
| Conjugate | Unconjugated |



ELISA assay to evaluate CGRPR-RAMP1-MNP 0.5 μ g Human CGRPR-RAMP1-MNP per well

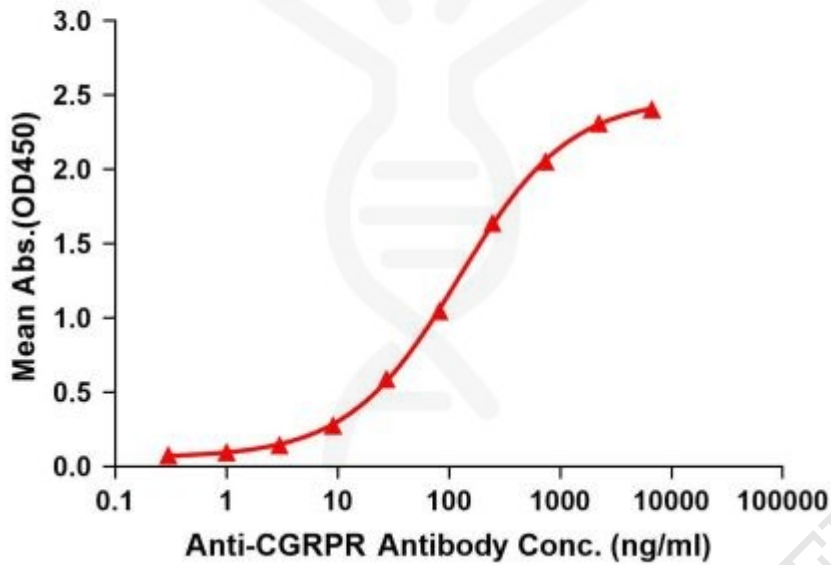


Figure1. Elisa plates were pre-coated with 0.5 μ g/per well purified human CGRPR-RAMP1 full length membrane nanoparticles. Serial diluted anti-CGRPR monoclonal antibody (BME100166) solutions were added, washed, and incubated with secondary antibody before Elisa reading. From above data, the EC50 for anti-CGRPR monoclonal antibody binding with CGRPR-RAMP1 full length membrane nanoparticles is 122.8ng/ml.

