

## **PRODUCT INFORMATION**

**Target CGRPR** 

**Synonyms** CALCRL; CRLR; LMPHM8

Human CGRPR-RAMP1 full length protein **Description** 

membrane nanoparticles (MNPs)

**Delivery** In Stock **Uniprot ID** Q16602 **Expression Host HEK293** 

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

Neuroactive ligand-receptor interaction, Vascular **Protein Pathways** 

smooth muscle contraction

The human full length CGRPR protein has a MW of **Molecular Weight** 

53.0 kDa

Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8% trehalose is added as protectants before Formulation & lyophilization. Please see Certificate of Analysis Reconstitution

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 at -80°C (Avoid repeated freezing and thawing). Storage & Shipping

Lyophilized proteins are shipped at ambient

temperature.

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 curfaces thereby blocking CCRP activity.

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surfaces, thereby blocking CGRP activity.

Usage Research use only Conjugate Unconjugated

**Background** 





## ELISA assay to evaluate CGRPR-RAMP1-MNP 0.5µg Human CGRPR-RAMP1-MNP per well

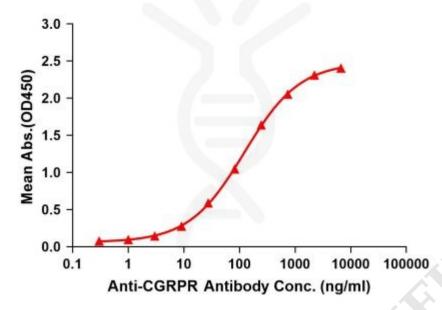


Figure 1. Elisa plates were pre-coated with  $0.5\mu g/per$  well purified human CGRPR-RAMP1 full length membrane nanoparticles. Serial diluted anti-CGRPR monoclonal antibody (BME100166) solutions were added, washed, and incubated with secondary antibody before Elisa reading. From above data, the EC50 for anti-CGRPR monoclonal antibody binding with CGRPR-RAMP1 full length membrane nanoparticles is 122.8ng/ml.

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