

## **PRODUCT INFORMATION**

**CGRPR Target** 

**Synonyms** CALCRL; CRLR; LMPHM8

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

synthetic nanodisc

**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 nanodisc solubilization buffer (20 mM Tris-HCl, 150 mM NaCl, pH 8.0). Normally 5% – 8% trehalose is added as protectants before Formulation & Reconstitution lyophilization. Please see Certificate of Analysis for specific instructions. Do not use solvents with

pH lower than 6.5 in subsequent experiments. 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 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 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.

Email: info@dimabio.com Website: www.dimabio.com

Research use only Usage

**Background** 

Address: Wuhan institute of Biotechnology B7, Biolake No.666 Gaoxin Road, Wuhan, Hubei, China Telephone: +1 2409940618(USA) /+86-18062749453(China)

/+86-400-006-0995(China)





## ELISA assay to evaluate CGRPR-RAMP1-Nanodisc 0.2µg Human CGRPR-RAMP1-Nanodisc per well

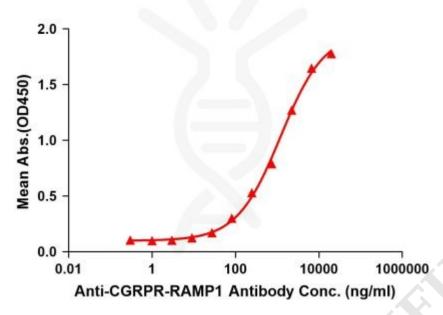


Figure 1. Elisa plates were pre-coated with Flag Tag CGRPR-RAMP1-Nanodisc (0.2µg/per well). Serial diluted anti-CGRPR monoclonal antibody (BME100166) solutions were added, washed, and incubated with secondary antibody before Elisa reading. From above data, the EC50 for anti-CGRPR monoclonal antibody binding with CGRPR-RAMP1-Nanodisc is 1216ng/ml.



Figure 2. Human CGRPR-RAMP1-Nanodisc, Flag Tag on SDS-PAGE

Address: Wuhan institute of Biotechnology B7, Biolake No.666 Gaoxin Road, Wuhan, Hubei, China Telephone: +1 2409940618(USA) /+86-18062749453(China) /+86-400-006-0995(China)

Email: info@dimabio.com Website: www.dimabio.com

