

## HUMAN CGRPR-RAMP1 FULL LENGTH PROTEIN

**Cat.#:** 12234

**Product Name:** Human CGRPR-RAMP1 Full Length Protein

**Size:** 10 µg, 50 µg and 100 µg

**Synonyms:** CALCRL; CRLR; LMPHM8

**Target:** CGRPR

**UNIPROT ID:** Q16602

**Description:** Human CGRPR-RAMP1 full length protein membrane nanoparticles (MNPs)

**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.

**Species/Host:** HEK293

**Molecular Weight:** The human full length CGRPR protein has a MW of 53.0 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.

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

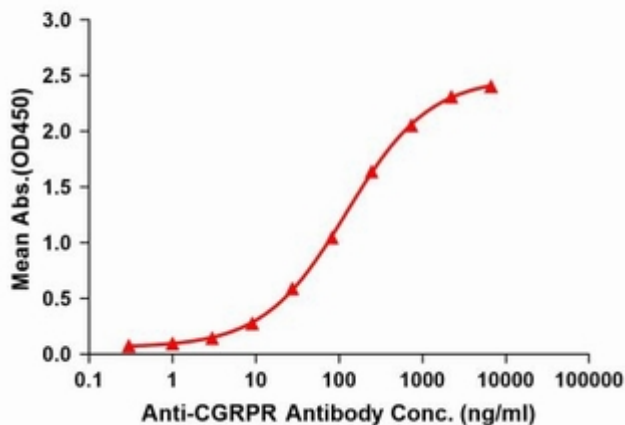


Figure1. Elisa plates were pre-coated with 0.5 µg/per well purified human CGRPR-RAMP1 full length membrane nanoparticles. Serial diluted anti-CGRPR monoclonal antibody (28157) solutions were added, washed, and incubated with secondary antibody before Elisa reading. From above data, the EC50 for anti-CGRPR monoclonal antibody binding with CGRPR-RAMP1 full length membrane nanoparticles is 122.8ng/ml.