

HUMAN CGRPR-RAMP1 FULL LENGTH PROTEIN

目录: 12234

产品名称: Human CGRPR-RAMP1 Full Length Protein

规格: 10 µg, 50 µg and 100 µg

基因符号: CALCRL; CRLR; LMPHM8

Target: CGRPR

UNIPROT ID: Q16602

描述: Human CGRPR-RAMP1 full length protein membrane nanoparticles (MNP)

背景: 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.

储存和运输: 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

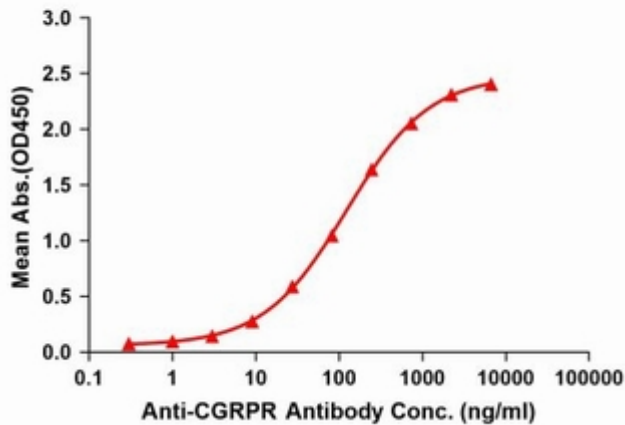


Figure1. Elisa plates were pre-coated with 0.5 µg/per well purified human CGRPR-RAMP1 full length membrane nanoparticles. Serial diluted CGRPR monoclonal antibody (28157) solutions were added, washed, and incubated with secondary antibody before Elisa reading. From above data, the EC50 for CGRPR monoclonal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