

## PRODUCT INFORMATION

<b>Target</b>	CGRPR and RAMP1
<b>Synonyms</b>	CRLR; CGRPR; LMPHM8 and RAMP1
<b>Description</b>	Recombinant human CGRPR protein with C-terminal human Fc tag and human RAMP1 protein with C-terminal mouse Fc tag
<b>Delivery</b>	In Stock
<b>Uniprot ID</b>	Q16602 and O60894
<b>Expression Host</b>	HEK293
<b>Tag</b>	C-Human Fc tag and C-mouse Fc tag
<b>Molecular Characterization</b>	CGRPR(Glu23-Asn140) hFc(Glu99-Ala330) and RAMP1(Cys27-Ser117) mFc(Pro99-Lys330)
<b>Molecular Weight</b>	The protein has a predicted molecular mass of 39.9 and 36.7 kDa after removal of the signal peptide. The apparent molecular mass of CGRPR-hFc and RAMP1-mFc is approximately 35-70 kDa due to glycosylation.
<b>Purity</b>	The purity of the protein is greater than 95% as determined by SDS-PAGE and Coomassie blue staining.
<b>Formulation &amp; Reconstitution</b>	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.
<b>Storage &amp; Shipping</b>	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.
<b>Background</b>	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.
<b>Usage</b>	Research use only



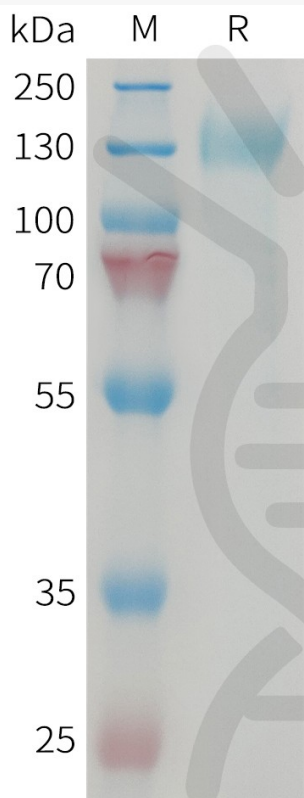


Figure 1. Human CGRPR and RAMP1 Heterodimer Protein, hFc Tag and mFc Tag on SDS-PAGE under reducing condition.

DIMABIO CONFIDENTIAL

