

# Human RGM-C Protein

Cat. No. RGM-HM10C

## Description

<b>Source</b>	Recombinant Human RGM-C Protein is expressed from HEK293 with His tag at the C-Terminus. It contains Gln33-Asp393.
<b>Accession</b>	Q6ZVN8-1
<b>Molecular Weight</b>	The protein has a predicted MW of 40 kDa (mature)&26 kDa (C-terminus peptide)&14 kDa (N-terminus peptide). Due to enzyme lysis and glycosylation, the protein migrates to 55-60 kDa&30-40 kDa&20-25 kDa based on Tris-Bis PAGE result.
<b>Endotoxin</b>	Less than 1EU per µg by the LAL method.
<b>Purity</b>	> 95% as determined by Tris-Bis PAGE > 95% as determined by HPLC

## Formulation and Storage

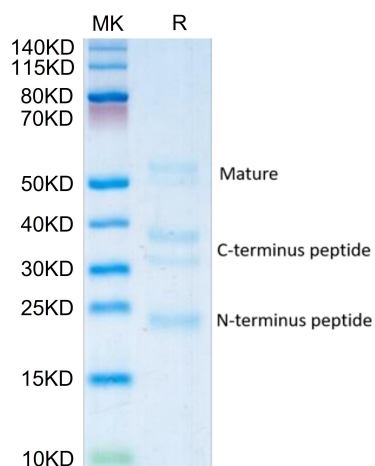
<b>Formulation</b>	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
<b>Reconstitution</b>	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
<b>Storage</b>	-20 to -80°C for 12 months as supplied from date of receipt. -20 to -80°C for 3-6 months in unopened state after reconstitution. 2-8°C for 2-7 days after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

## Background

RGM gene family ('Repulsive Axonal Guidance molecules' A, B and C), both RGM A and B are mostly expressed in central nervous system, while RGM C is exclusively expressed in all striated muscle and in the myocardium. RGM A and B appear at every level of the developing neural axis, where they colocalize to a large extent in the mantle layer, although only RGM A appears in the neuroepithelium, and only RGM B in the peripheral nervous system.

## Assay Data

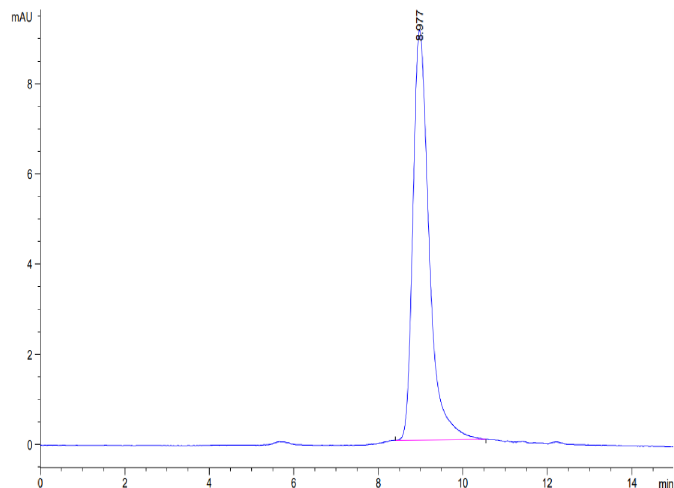
### Tris-Bis PAGE



Human RGM-C on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

### SEC-HPLC

Assay Data

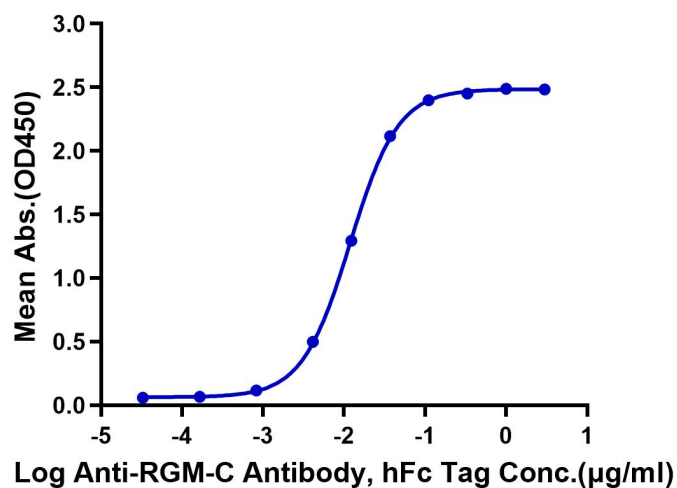


The purity of Human RGM-C is greater than 95% as determined by SEC-HPLC.

ELISA Data

Human RGM-C, His Tag ELISA

0.05µg Human RGM-C, His Tag Per Well



Immobilized Human RGM-C, His Tag at 0.5µg/ml (100µl/well) on the plate. Dose response curve for Anti-RGM-C Antibody, hFc Tag with the EC50 of 11.9ng/ml determined by ELISA.