

Human RGM-C Protein



Cat. No. RGM-HM10C

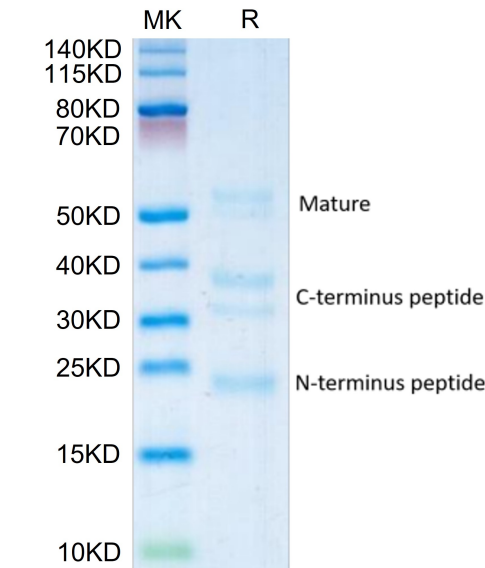
Description	
Source	Recombinant Human RGM-C Protein is expressed from HEK293 with His tag at the C-terminus. It contains Gln36-Asp400.
Accession	Q6ZVN8-1
Molecular Weight	The protein has a predicted MW of 40 kDa (mature), 26 kDa (C-terminus peptide) and 14 kDa (N-terminus peptide). Due to enzyme lysis and glycosylation, the protein migrates to 55-60 kDa, 30-40 kDa, 20-25 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 1 EU per µg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

Formulation and Storage	
Formulation	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
Storage	-20 to -80°C for 24 months as supplied from date of receipt.-80°C for 3 months 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

Bis-Tris PAGE



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

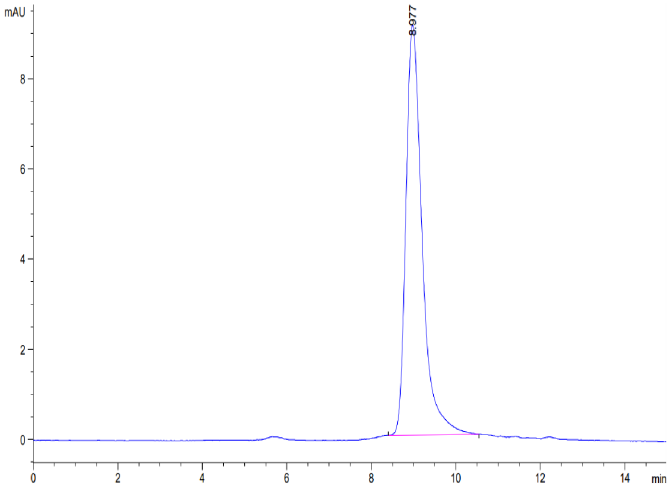
SEC-HPLC

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Assay Data

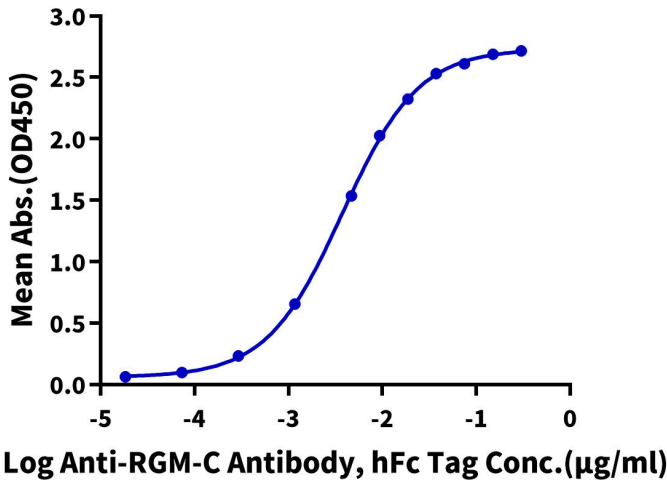


The purity of Human RGM-C is greater than 95% as determined by SEC-HPLC.

ELISA Data

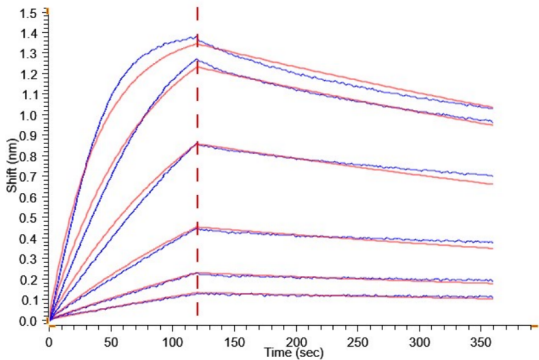
Human RGM-C, His Tag ELISA

0.1µg Human RGM-C, His Tag Per Well



Immobilized Human RGM-C, His Tag at 1µg/ml (100µl/well) on the plate. Dose response curve for Anti-RGM-C Antibody, hFc Tag with the EC50 of 3.8ng/ml determined by ELISA.

BLI Data



Loaded Anti-RGM-C Ab., hFc-Avi Tag on ProA-Biosensor can bind Human RGM-C, His Tag with an affinity constant of 4.59 nM as determined in BLI assay (Gator® Prime).