

## RGMC Protein, Mouse, Recombinant (His)

### General Information

Synonyms:	HJV;DL-M;JH;Rgmc;RGM-C;Hemojuvelin;HFE2;HFE2AMGC23953
Protein Construction:	Gln33-Asp393
Species:	Mouse
Expression Host:	HEK293 Cells
Accession:	Q7TQ32-1
Molecular Weight:	40 kDa (mature)&26 kDa (C-terminus peptide)&14 kDa (N-terminus peptide) (predicted). Due to enzyme lysis and glycosylation, the protein migrates to 55-60 kDa&36-40 kDa&20-25 kDa based on Tris-Bis PAGE result.

### QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 μm filter, containing PBS (pH 7.4). Typically, 8% trehalose is incorporated as a protective agent before lyophilization.

### Preparation and Storage

#### Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 μg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

#### Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

#### Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

### Protein 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.

Reference

Oldekamp J, et al. Expression pattern of the repulsive guidance molecules RGM A, B and C during mouse development. *Gene Expr Patterns*. 2004 May;4(3):283-8. doi: 10.1016/j.modgep.2003.11.008. PMID: 15053976.

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