Mouse EGF Protein, Ultra Low Endotoxin

Cat. No. EGF-MM202-UL

Description

Source	Recombinant Mouse EGF Protein is expressed from HEK293 with hFc (IgG1) tag at the N-Terminus.
	It contains Asn977-Arg1029.
Accession	P01132
Molecular Weight	The protein has a predicted MW of 32.35 kDa. Due to glycosylation, the protein migrates to 35-40 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 0.01 EU per μg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE
	> 90% as determined by HPLC

Formulation and Storage

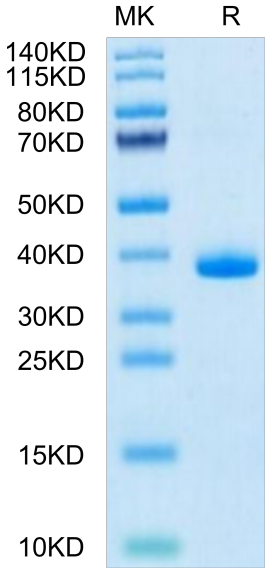
Formulation	Lyophilized from 0.22μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
Storage	-20 to -80°C for 12 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

The epidermal growth factor (EGF) family of peptides encodes several proteins that can function as growth factors. The EGF-like peptides, with the exception of proteins of the EGF-CFC subfamily, bind and activate tyrosine kinase receptors that belong to the erbB family.

Assay Data

Bis-Tris PAGE



Mouse EGF on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC

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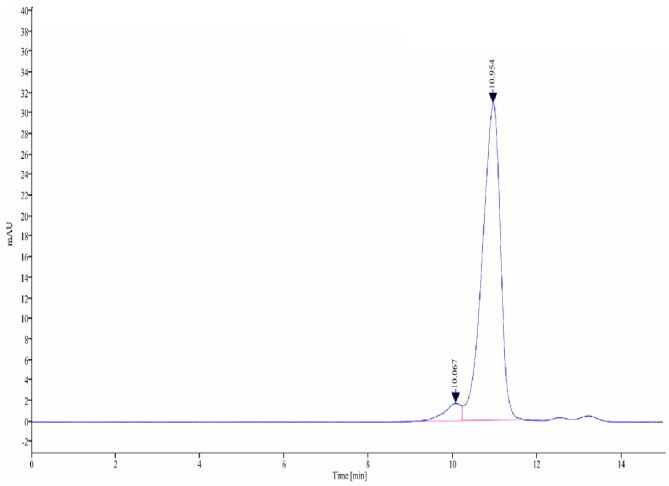
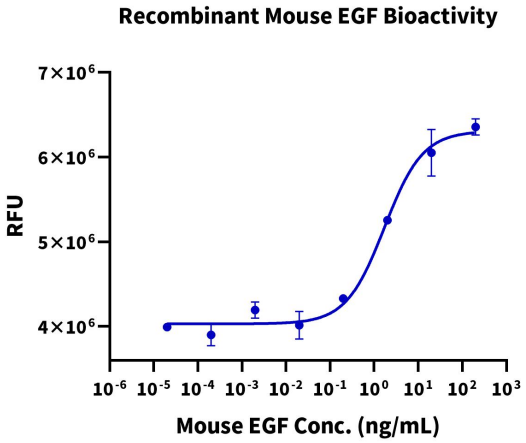


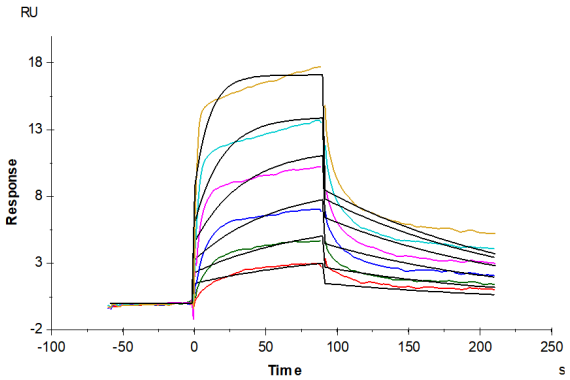
The purity of Mouse EGF is greater than 90% as determined by SEC-HPLC.

Cell Based Assay



Measured in a cell proliferation assay using Balb/3T3 mouse embryonic fibroblasts. The ED50 for this effect is typically 0.4 - 3 ng/mL.

SPR Data



Mouse EGFR, His Tag captured on CM5 Chip via anti-his antibody can bind Mouse EGF, hFc Tag with an affinity constant of 3.98 nM as determined in SPR assay (Biacore T200).