### **Human EGF Protein**

Cat. No. EGF-HM202



Description	
Source	Recombinant Human EGF Protein is expressed from HEK293 with hFc tag at the N-Terminus.
	It contains Asn971-Arg1023.
Accession	P01133-1
Molecular Weight	The protein has a predicted MW of 32.52 kDa. Due to glycosylation, the protein migrates to 38-43 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 1EU per μg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE
	> 95% as determined by HPLC

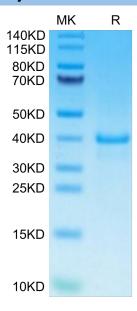
#### Formulation and Storage

Formulation	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 12 months as supplied from date of receipt80°C for 3-6 months 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

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**

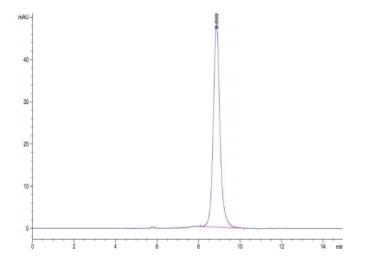


Human EGF on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

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### **Assay Data**

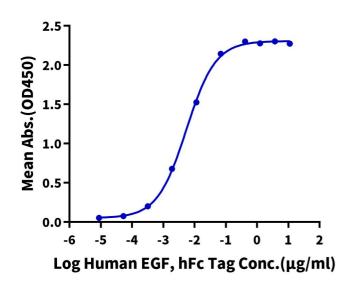


The purity of Human EGF is greater than 95% as determined by SEC-HPLC.

#### **ELISA Data**

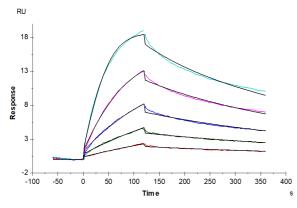
## **Human EGF, hFc Tag ELISA**

0.1µg Biotinylated Human EGFR, His Tag Per Well



Immobilized Biotinylated Human EGFR, His Tag at 1µg/ml (100µl/well) on the streptavidin precoated plate(5µg/ml). Dose response curve for Human EGF, hFc Tag with the EC50 of 5.5ng/ml determined by ELISA (QC Test).

#### **SPR Data**



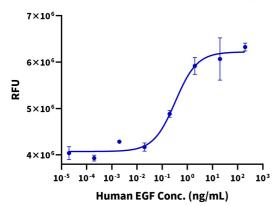
Human EGFR, His Tag captured on CM5 Chip via anti-his antibody can bind Human EGF, hFc Tag with an affinity constant of 0.39 nM as determined in SPR assay (Biacore T200).

**Cell Based Assay** 



## **Assay Data**

#### **Recombinant Human EGF Bioactivity**



Measured in a cell proliferation assay using Balb/C 3T3 mouse embryonic fibroblast cells. The ED50 for this effect is typically 0.2 - 1.5 ng/mL.