

Recombinant Human EGF protein, Mouse IgG Fc-tagged

Cat. No. EGF-6282H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human EGF (Asn971-Arg1023) protein was fused to mouse IgG2a Fc tag at N-terminus and expressed in human 293 cells (HEK293).
Species	Human
Source	HEK293
ProteinLength	Asn971-Arg1023
Description	Human epidermal growth factor (EGF) is also known as HOMG4 and URG, and is a growth factor that plays an important role in the regulation of cell growth, proliferation, and differentiation by binding to its receptor EGFR. Epidermal growth factor can be found in human platelets, macrophages, urine, saliva, milk, and plasma. EGF is the founding member of the EGF-family of proteins. Members of this protein family have highly similar structural and functional characteristics. All family members contain one or more repeats of the conserved amino acid sequence. The biological effects of salivary EGF include healing of oral and gastroesophageal ulcers, inhibition of gastric acid secretion, stimulation of DNA synthesis as well as mucosal protection from intraluminal injurious factors such as gastric acid, bile acids, pepsin, and trypsin and to physical, chemical and bacterial agents. Because of the increased risk of cancer by EGF, inhibiting it decreases cancer risk.
Predicted N Terminal	Asn971
Form	Lyophilized from 0.22

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

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	µm filtered solution in Tris with Glycine, Arginine and NaCl, pH7.5, 10% trehalose.
Molecular Mass	The protein has a calculated MW of 33.1 kDa. The protein migrates as 35 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.
Endotoxin	Less than 0.1 EU per µg by the LAL method.
Purity	>95% as determined by SDS-PAGE.
Storage	For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower. Please avoid repeated freeze-thaw cycles. This product is stable after storage at: -20 to -70 centigrade for 12 months in lyophilized state; -70 centigrade for 3 months under sterile conditions after reconstitution.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

GENE INFORMATION

Gene Name	EGF
Official Symbol	EGF
Synonyms	EGF; epidermal growth factor; epidermal growth factor (beta urogastrone); pro-epidermal growth factor; beta-urogastrone; URG; HOMG4
Gene ID	1950
mRNA Refseq	NM_001178130

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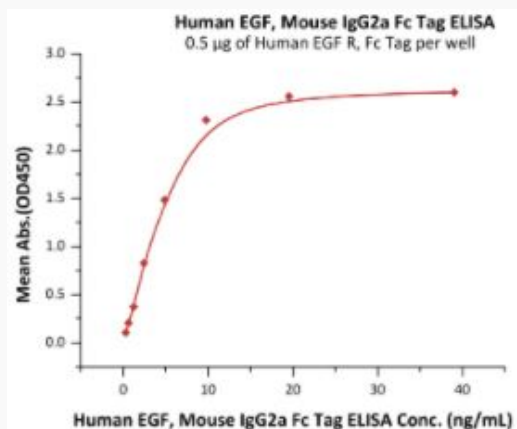
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Protein Refseq NP_001171601

MIM 131530

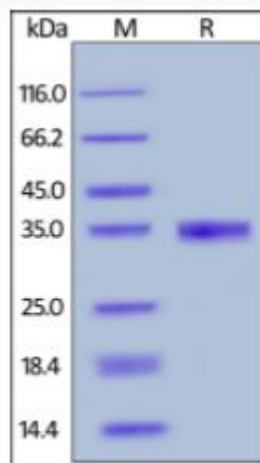
UniProt ID P01133

**Bioactivity-ELISA of
EGF-6282H**



Immobilized Human EGF R, Fc Tag at 5 µg/mL (100 µL/well) can bind Human EGF, Mouse IgG2a Fc Tag with a linear range of 0.3-10 ng/mL (QC tested).

**SDS-PAGE of EGF-
6282H**



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Human EGF, Mouse IgG2a Fc Tag on SDS-PAGE under reducing (R) condition.
The gel was stained overnight with Coomassie Blue. The purity of the protein is
greater than 95%.

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