

Egf

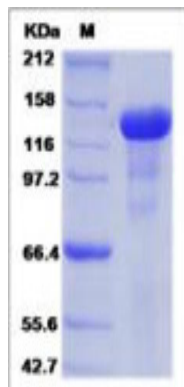
Recombinant Mouse Epidermal growth factor (His Tag)

Catalog No.	CRM626A-His CRM626B-His	Quantity:	20 µg 50 µg
Alternate Names:	Pro-epidermal growth factor, EGF, Epidermal growth factor		
Description:	<p>EGF is the founding member of the highly conserved EGF-family of proteins. EGF contains 9 EGF-like domains and 9 LDL-receptor class B repeats. Human EGF is a 645-Da protein with 53 amino acid residues and three intramolecular disulfide bonds. As a low-molecular-weight polypeptide, EGF was first purified from the mouse submandibular gland, but since then it was found in many human tissues including submandibular gland, parotid gland. It can also be found in human platelets, macrophages, urine, saliva, milk, and plasma. EGF is a growth factor that stimulates the growth of various epidermal and epithelial tissues in vivo and in vitro and of some fibroblasts in cell culture. It results in cellular proliferation, differentiation, and survival. Salivary EGF, which seems also regulated by dietary inorganic iodine, also plays an important physiological role in the maintenance of oro-esophageal and gastric tissue integrity. EGF acts by binding with high affinity to epidermal growth factor receptor on the cell surface and stimulating the intrinsic protein-tyrosine kinase activity of the receptor. The tyrosine kinase activity, in turn, initiates a signal transduction cascade that results in a variety of biochemical changes within the cell - a rise in intracellular calcium levels, increased glycolysis and protein synthesis, and increases in the expression of certain genes including the gene for EGFR - that ultimately lead to DNA synthesis and cell proliferation.</p>		
UniProt ID:	P01132		
Accession Number:	AAH60741.1		
Protein Construction:	A DNA sequence encoding the mouse Egf (Met1-Arg1029) was expressed with a polyhistidine tag at the C-terminus.		
Source:	HEK293 Cells		
Formulation:	<p>Lyophilized from sterile PBS, pH 7.4.</p> <p>Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.</p>		
Molecular Weight:	The recombinant mouse Egf consists 1012 amino acids with a predicted molecular mass of 111.3 kDa.		
Purity:	> 90 % as determined by SDS-PAGE.		
Endotoxin Level:	< 1.0 EU per µg of the protein as determined by the LAL method		
Biological Activity:	Testing in progress		
Predicted N-terminal:	Trp 29		
Reconstitution:	<p>Centrifuge vial prior to opening. Add sterile distilled water to a concentration of 0.1 mg/mL and gently pipette the solution up and down the sides of the vial.</p> <p>DO NOT VORTEX. Allow several minutes for complete reconstitution.</p>		

Storage & Stability:

Stable for up to 1 year from date of receipt at -20°C to -80°C
After reconstitution, store working aliquots at -20°C to -80°C.
Avoid repeated freeze-thaw cycles.

SDS-PAGE



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