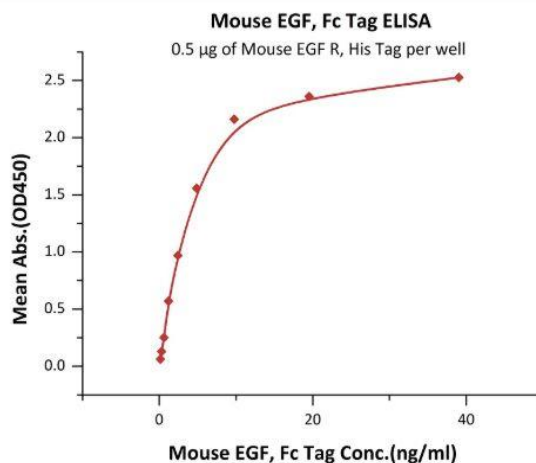
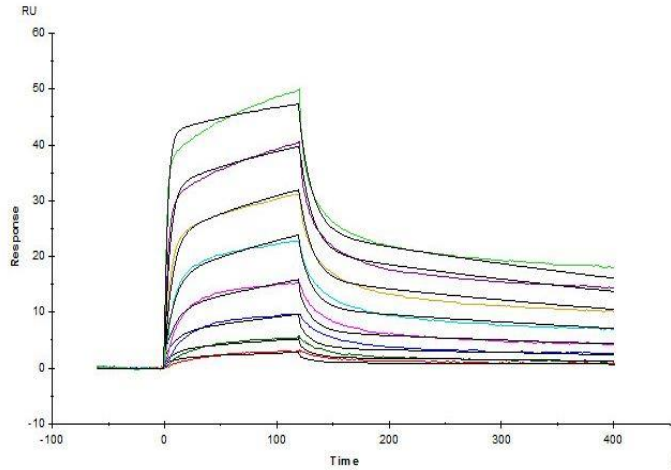


Human CellExp™ EGF, Fc Tag, Mouse recombinant

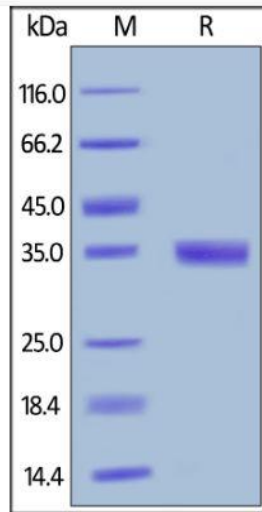
CATALOG NO:	P1428-10 10 µg P1428-50 50 µg
ALTERNATE NAMES:	Epidermal growth factor, URG, HOMG4
MOL. WT.	This protein carries a human IgG1 Fc tag at the N-terminus. The protein has a calculated MW of 32.5 kDa. The protein migrates as 35 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.
SOURCE:	HEK 293 Cells
PURITY:	>95% SDS-PAGE
ENDOTOXIN:	Less than 1.0 EU per µg by the LAL method.
FORM:	Lyophilized powder
FORMULATION:	Lyophilized from 0.22 µm filtered solution in 50 mM Tris, 100 mM Glycine, 25 mM Arginine, 150 mM NaCl, pH7.5. Normally trehalose is added as protectant before lyophilization.
RECONSTITUTION:	Reconstitute in sterile deionized water to the desired protein concentration.
STORAGE CONDITIONS:	Store at -20°C. After reconstitution, aliquot and store at -70°C and use within 3 months. Avoid repeated freezing and thawing cycles. -20°C
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.
AMINO ACID SEQUENCE:	AA Asn 977 - Arg 1029



Immobilized Mouse EGF R, His Tag at 5 µg/ml (100 µl/well) can bind Mouse EGF, Fc Tag with a linear range of 0.2-5 ng/ml.



Captured Mouse EGF R, His Tag on CM5 Chip via anti-His antibody can bind Mouse EGF, Fc Tag with an affinity constant of 5.44 nM as determined in SPR assay



Mouse EGF, Fc Tag on SDS-PAGE under reducing (R) condition.

RELATED PRODUCTS:

- OryzaExp™ Epidermal Growth Factor, Human Recombinant (Cat# P1398)
- HB-EGF, mouse recombinant (Cat# 4267)
- Human CellExp™ EGFRvIII, human recombinant (Cat# P1082)
- EGFR/ErbB1 (Human) ELISA Kit (Cat# K4168)
- EGF Receptor, human recombinant (Cat# 7135)
- Epidermal Growth Factor (EGF), human recombinant (Cat# 4022)
- Anti-Phospho-EGFR (Tyr1173) Rabbit Monoclonal Antibody (Cat# A1593)
- Anti-EGFR (Panitumumab), Humanized Antibody (Cat# A1050)
- Anti-EGFR (Matuzumab), Human IgG1 Antibody (Cat# A1090)
- Human CellExp™ EGF, human recombinant (Cat# 7228)

FOR RESEARCH USE ONLY! Not to be used on humans.