Datasheet for ABIN6699801

EGF Protein

2 Images

Go to Product page

Overview

Quantity:	100 µg
Target:	EGF
Origin:	Rat
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Application:	SDS-PAGE (SDS)

Product Details

Purpose:	Rat Epidermal Growth Factor Recombinant Protein
Purification:	Epidermal Growth Factor purity was determined to be greater than 95% as determined by analysis by HpLC, UV-Spectroscopy at 280nm and by reducing and non-reducing SDS-pAGE.
Purity:	95,00%
Endotoxin Level:	Measured by LAL is typically ≤ 1 EU/µg protein.
Biological Activity Comment:	The activity is determined by the dose-dependent proliferation of mouse BALB/c 3T3 cells and is typically less than 0.1 ng/mL.

Target Details

Target:	EGF
Alternative Name:	Egf (EGF Products)
Background:	Synonyms: Urogastrone, URG Background: Epidermal Growth Factor (EGF) is a growth factor that stimulates the proliferation

Target Details

	of epithelial and epidermal cells. EGF family members are characterized by three intramolecular disulfide bonds and can bind to four different receptor tyrosine kinases known as EGFR/ErbB1, ErbB2, ErbB3, and ErbB4. Recombinant rat EGF is a non-glycosylated protein, containing 54 amino acids, with a molecular weight of 6.3 kDa.
UniProt:	P07522
Pathways:	NF-kappaB Signaling, RTK Signaling, Fc-epsilon Receptor Signaling Pathway, EGFR Signaling Pathway, Neurotrophin Signaling Pathway, Regulation of Carbohydrate Metabolic Process, Hepatitis C, Protein targeting to Nucleus, Interaction of EGFR with phospholipase C-gamma, Thromboxane A2 Receptor Signaling, EGFR Downregulation

Application Details

Application Notes:	Other: User Optimized Application_Note: Epidermal Growth Factor Recombinant Protein has been tested by SDS-PAGE and biological activity and is suitable as a control for polyclonal or monoclonal anti-Epidermal Growth Factor in immunological assays.
Comment:	Suggested_Applications: Cellular Assay Other_Performance_Data:
Restrictions:	For Research Use only

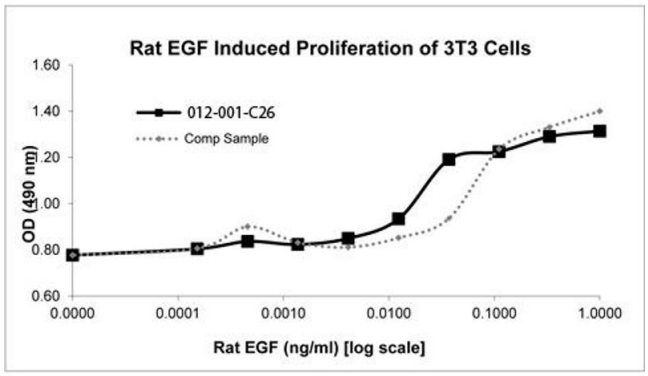
Handling

Format:	Lyophilized
Reconstitution:	Reconstitution_Buffer: Restore with deionized water (or equivalent) Reconstitution_Volume: 100 µL
Concentration:	0.1 mg/mL
Buffer:	Buffer: 0.01 M Sodium Phosphate, pH 7.5 Stabilizer: None
Preservative:	Without preservative
Storage:	4 °C,-20 °C
Storage Comment:	Store vial at 4° C prior to restoration. Dilute only prior to immediate use. Maintain sterility. This product DOES NOT contain preservative. DO NOT VORTEX. We recommend adding a carrier protein such as HSA or BSA to 0.1% (i.e. 1.0 mg/mL). For best results aliquot contents and

Handling

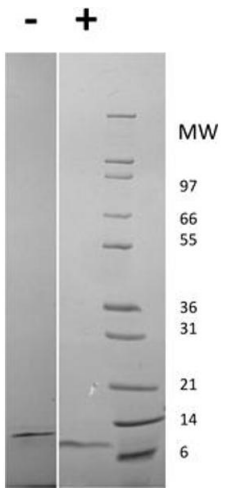
	freeze at -20° C or colder. Avoid cycles of freezing and thawing. Centrifuge vial before each opening to dislodge contents from the cap and to clarify if contents are not clear after standing at room temperature.
Expiry Date:	6 months

Images



SDS-PAGE

Image 1. SDS-PAGE of Rat Epidermal Growth Factor Recombinant Protein Bioactivity of Rat Epidermal Growth Factor Recombinant Protein . 3T3 cells were cultured with 0 to 1 ng/mL Rat EGF. Cell proliferation was measured after 42 hours and the linear portion of the curve was us used to calculate the ED50. The ED50 of EGF is 50-80 pg/mL. This value is comparable to the typical expected range of 20-100 pg/mL.



SDS-PAGE

Image 2. SDS-PAGE of Rat Epidermal Growth Factor Recombinant Protein SDS-PAGE of Rat Epidermal Growth Factor Recombinant Protein. Lane 1: 1 µg Rat EGF in non-reducing conditions . Lane 2: 1 µg Rat EGF in reducing conditions (+). Lane 3: Molecular weight marker. Rat EGF is predicted to have a MW of 6.3 kDa.