Datasheet for ABIN6699795

EGF Protein

1 Image

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Overview

Quantity:	100 µg
Target:	EGF
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant

Product Details

Purpose:	Human Epidermal Growth Factor Recombinant Protein (Animal Free)
Purification:	Epidermal Growth Factor (EDF) is produced with no animal-derived raw products, animal free equipment and animal free protocols. 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.
Grade:	Animal-Free
Biological Activity Comment:	The activity is determined by the dose-dependent proliferation of murine BALB/c 3T3 cells and is typically between 20-100 pg/mL.

Target Details

Target:	EGF
Alternative Name:	EGF (EGF Products)

Target Details

Background:	Synonyms: Urogastrone, URG Background: Epidermal Growth Factor (EGF) is a growth factor that stimulates the proliferation 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 human EGF is a single, non-glycosylated protein containing 53 amino acids, with a molecular weight of 6.2 kDa.
UniProt:	P01133
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 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

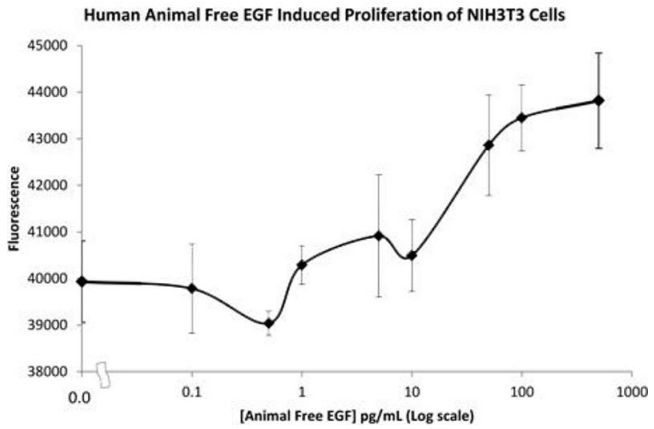
Handling

Format:	Lyophilized
Reconstitution:	Reconstitution_Buffer: Restore with deionized water (or equivalent) Reconstitution_Volume: 1.0 mL
Concentration:	0.1 mg/mL
Buffer:	Buffer: 0.1 % Trifluoroacetic acid Stabilizer: None
Preservative:	Without preservative
Storage:	-20 °C
Storage Comment:	Store vial at -20° C prior to restoration. Dilute only prior to immediate use. Maintain sterility. This

Handling

	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 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 Human Epidermal Growth Factor Recombinant Protein (Animal Free) Bioactivity of Human Epidermal Growth Factor Recombinant Protein. 3T3 cells were cultured with 0 to 1 ng/mL Human EGF. Cell proliferation was measured after 44 hours and the linear portion of the curve was us used to calculate the ED50. The ED50 of Human EGF is 8.8-13.2 pg/mL. This value is comparable to the typical expected range of 20-100 pg/mL.