Datasheet for ABIN987814

EGF Protein (AA 971-1023)

Go to Product page

Overview

Quantity:	100 µg
Target:	EGF
Protein Characteristics:	AA 971-1023
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Biological Activity:	Active

Product Details

Characteristics:	ED50 <0.6 ng/mL, measured in a cell proliferation assay using Balb/3T3 mouse embryonic fibroblasts in serum-free medium and CellTiter-Glo cell viability assay, corresponding to a specific activity of >1.7 x 10^6 units/mg. AA 971-1023, expressed with an N-terminal Met
Purity:	> 95 % by SDS-PAGE analysis.
Endotoxin Level:	< 0.1 ng/µg (1 EU/µg) determined by LAL test

Target Details

Target:	EGF
Alternative Name:	Epidermal Growth Factor (EGF Products)
Background:	Epidermal Growth Factor (EGF) is a potent growth factor that stimulates the proliferation of various epidermal and epithelial cells. Additionally, EGF has been shown to inhibit gastric

Target Details

	secretion, and to be involved in wound healing. EGF signals through a receptor known as c-erbB, which is a class I tyrosine kinase receptor. This receptor also binds with TGF-a and VGF (vaccinia virus growth factor). Recombinant human EGF is a 6.2 kDa globular protein containing 53 amino acid residues including 3 intramolecular disulfide-bonds. Recombinant human Epidermal Growth Factor (rhEGF) produced in E. coli is a non-glycosylated polypeptide chain of 54 amino acids. A fully biologically active molecule, rhEGF has a molecular mass of 6.2 kDa analyzed by reducing SDS-PAGE. Synonyms: Urogastrone, URG
Molecular Weight:	6.2kDa, observed by reducing SDS-PAGE.
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

Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Reconstituted in ddH2O at 100 µg/mL.
Buffer:	Lyophilized after extensive dialysis against 10 mM PB, pH 7.0.
Storage:	-80 °C
Storage Comment:	Lyophilized recombinant human Epidermal Growth Factor (rhEGF) remains stable up to 12 months at -80 °C from date of receipt. Upon reconstitution, rhEGF should be stable up to 4 weeks at 4 °C or up to 6 months at -20 °C.
Expiry Date:	12 months