Datasheet for ABIN2017760

EGF Protein (AA 974-1026)

Go to Product page

Overview

Quantity:	50 µg
Target:	EGF
Protein Characteristics:	AA 974-1026
Origin:	Rat
Source:	CHO Cells
Protein Type:	Recombinant
Biological Activity:	Active

Product Details

Characteristics:	ED50 < 0.1 ng/mL, measured in a cell proliferation assay using 3T3 cells.
Purity:	> 95 % as analyzed by SDS-PAGE and HPLC.
Endotoxin Level:	< 0.2 EU/µg, determined by LAL method.

Target Details

Target:	EGF
Abstract:	EGF Products
Background:	Epidermal Growth Factor, a low-molecular-weight polypeptide, is the founding member of the EGF-family of proteins. It can be found in platelets, macrophages, urine, saliva, etc. EGF acts by binding with high affinity to the Epidermal Growth Factor Receptor (EGFR) and stimulating downstream protein tyrosine kinase activity. This signal transduction cascade results in increased intracellular calcium levels and increased rates of glycolysis and protein synthesis.

Target Details

	EGF stimulates the growth of many epidermal and epithelial tissues. Pharmaceutical drugs designed to inhibit EGFR have been used to treat certain types of cancer. Synonyms: Epidermal Growth Factor, Urogastrone, URG
Molecular Weight:	6 kDa, observed by reducing SDS-PAGE.
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

Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Reconstituted in ddH2O or PBS at 100 µg/mL.
Buffer:	Lyophilized after extensive dialysis against PBS.
Storage:	-80 °C
Storage Comment:	Lyophilized recombinant Rat Epidermal Growth Factor remains stable up to 6 months at -80 °C from date of receipt. Upon reconstitution, Rat Epidermal Growth Factor should be stable up to 1 week at 4 °C or up to 2 months at -20 °C.
Expiry Date:	6 months