Datasheet for ABIN1880603

EGF Protein (AA 977-1029) (His tag)

Go to Product page

Overview

Quantity:	50 µg
Target:	EGF
Protein Characteristics:	AA 977-1029
Origin:	Mouse
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This EGF protein is labelled with His tag.

Product Details

Purpose:	Recombinant Mouse Epidermal Growth Factor/EGF (C-6His)
Sequence:	MNSYPGCPSS YDGYCLNGGV CMHIESLDSY TCNCVIGYSG DRCQTRDLRW WELRLEHHHH HH
Characteristics:	Recombinant Mouse epidermal growth factor/EGF is produced with our E. coli expression system. The target protein is expressed with sequence (Asn977-Arg1029) of Mouse EGF fused with a polyhistidine tag at the C-terminus.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Sterility:	0.2 µm filtered
Endotoxin Level:	Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test

Target Details

Target:	EGF

Target Details

Alternative Name:	Epidermal Growth Factor/EGF (EGF Products)
Sub Type:	Fusionprotein
Background:	EGF is a single-pass type I membrane protein,containing 8 LDL-receptor class B repeats and 9 EGF-like domains. EGF results in cellular proliferation, differentiation, and survival.EGF is a low-molecular-weight polypeptide first purified from the mouse submandibular gland, but since then found in many human tissues including submandibular gland, parotid gland. Salivary EGF, which seems also regulated by dietary inorganic iodine, also plays an important physiological role in the maintenance of oro-esophageal and gastric tissue integrity. 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. Alternative Names: Pro-epidermal growth factor, Epidermal growth factor,EGF
Molecular Weight:	7.2 kDa
UniProt:	P01132
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:	It is not recommended to reconstitute to a concentration less than 100 µg/mL. Dissolve the lyophilized protein in ddH2O. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.
Buffer:	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.
Handling Advice:	Always centrifuge tubes before opening. Do not mix by vortex or pipetting.
Storage:	4 °C/-20 °C/-80 °C

Handling

Storage Comment:	Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Expiry Date:	3 months

