

Product datasheet

Recombinant human EGF protein (Animal Free)
ab179628

1 Image

Description

Product name	Recombinant human EGF protein (Animal Free)	
Biological activity	The activity is determined by the dose-dependent proliferation of murine BALB/c 3T3 cells and is typically between 20-100 pg/mL.	
Purity	> 98 % SDS-PAGE.	
Endotoxin level	<=1.000 Eu/µg	
Expression system	Escherichia coli	
Accession	P01133	
Protein length	Full length protein	
Animal free	Yes	
Nature	Recombinant	
Species	Human	
Sequence	NSDSECPLSH DGYCLHDGVC MYEALDKYA CNCVVG YIGE RCQYRDLKWW ELR	
Predicted molecular weight	6 kDa	
Amino acids	971 to 1023	
Additional sequence information	Mature form.	

Specifications

Our [Abpromise guarantee](#) covers the use of **ab179628** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	HPLC
	SDS-PAGE
	Functional Studies
Form	Lyophilized

Preparation and Storage

Stability and Storage

Shipped at 4°C. Store at -20°C. For long term storage it is recommended to add a carrier protein on reconstitution (0.1% HSA or BSA).

This product is an active protein and may elicit a biological response in vivo, handle with caution.

General Info

Function

EGF stimulates the growth of various epidermal and epithelial tissues in vivo and in vitro and of some fibroblasts in cell culture. Magnesiotropic hormone that stimulates magnesium reabsorption in the renal distal convoluted tubule via engagement of EGFR and activation of the magnesium channel TRPM6. Can induce neurite outgrowth in motoneurons of the pond snail *Lymnaea stagnalis* in vitro (PubMed:10964941).

Tissue specificity

Expressed in kidney, salivary gland, cerebrum and prostate.

Involvement in disease

Hypomagnesemia 4

Sequence similarities

Contains 9 EGF-like domains.

Contains 9 LDL-receptor class B repeats.

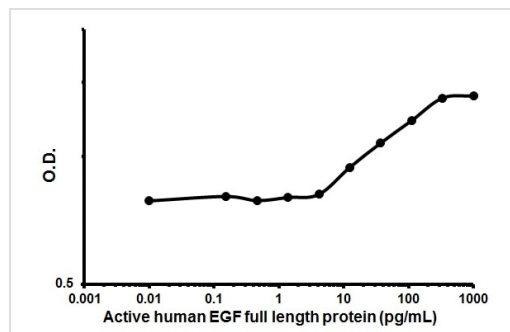
Post-translational modifications

O-glycosylated with core 1-like and core 2-like glycans. It is uncertain if Ser-954 or Thr-955 is O-glycosylated. The modification here shows glycan heterogeneity: HexHexNAc (major) and Hex2HexNAc2 (minor).

Cellular localization

Membrane.

Images



Dose-dependent proliferation of murine BALB/c 3T3 cells with ab179628. Assays were carried out in duplicate.

Cellular activation - Recombinant human EGF protein (Animal Free) (ab179628)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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