

## Product datasheet

# Recombinant human EGF protein (His tag) ab214144

### Description

<b>Product name</b>	Recombinant human EGF protein (His tag)	
<b>Biological activity</b>	Measured by its ability to stimulate the proliferation of balb/c3T3 cells. The ED <sub>50</sub> for this effect is typically 0.1ng/ml, corresponding to a specific activity of 1x 10 <sup>7</sup> units/mg.	
<b>Purity</b>	> 95 % SDS-PAGE.	
<b>Endotoxin level</b>	< 0.010 Eu/μg	
<b>Expression system</b>	HEK 293 cells	
<b>Accession</b>	<a href="#">P01133</a>	
<b>Protein length</b>	Full length protein	
<b>Animal free</b>	No	
<b>Nature</b>	Recombinant	
<b>Species</b>	Human	
<b>Sequence</b>	NSDSECPLSHDGYCLHDGVCMYEALDKYACNCVVGIGE RCQYRDLKWW ELR	
<b>Predicted molecular weight</b>	6 kDa	
<b>Amino acids</b>	971 to 1023	
<b>Tags</b>	His tag C-Terminus	
<b>Additional sequence information</b>	(NP_001954.2).	

### Specifications

Our [Abpromise guarantee](#) covers the use of **ab214144** in the following tested applications.

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

<b>Applications</b>	SDS-PAGE Functional Studies
<b>Form</b>	Lyophilized

### Preparation and Storage

<b>Stability and Storage</b>	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
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Constituent: 100% PBS

0.2µm-filtered

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

## Reconstitution

Reconstitute with 100 µl sterile water to a concentration of 0.1mg/ml. Add 1X PBS to the desired protein concentration. PBS containing at least 0.1% BSA should be used for further dilutions.

## General Info

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### 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.

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

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