abcam

Product datasheet

Recombinant mouse EGF protein (Animal Free) ab206643

1 Image

Description

Product name	Recombinant mouse EGF protein (Animal Free)
Biological activity	The activity is determined by the dose-dependent proliferation of mouse BALB/c 3T3 cells and is typically less than 0.1 ng/mL. This corresponds to an expected specific activity of 1 x 10^7 units/mg.
Purity	> 97 % SDS-PAGE. Purity is greater than 97% as determined by reducing and non-reducing SDS-PAGE and analytical HPLC.
Endotoxin level	< 0.050 Eu/µg
Expression system	Escherichia coli
Accession	**P01132**
Protein length	Full length protein
Animal free	Yes
Nature	Recombinant
Species	Mouse
Sequence	NSYPGCPSSY DGYCLNGGVC MHIESLDSYT CNCVIGYSGD RCQTRDLRWW ELR
Predicted molecular weight	6 kDa
Amino acids	977 to 1029
Additional sequence information	This product is for the mature full length protein. The signal peptide is not included.

Specifications

Our **Abpromise guarantee** covers the use of **ab206643** in the following tested applications.

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

Applications	Functional Studies SDS-PAGE HPLC
Form	Lyophilized

Preparation and Storage

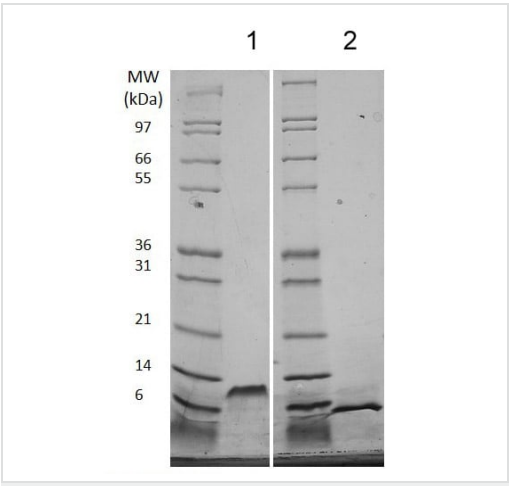
Preparation and Storage

Stability and Storage	Shipped at 4°C. Store at -20°C or -80°C. Avoid freeze / thaw cycle. Constituent: 0.16% Sodium phosphate This product is an active protein and may elicit a biological response in vivo, handle with caution.
Reconstitution	Reconstitute in sterile water at 0.1 mg/mL. Centrifuge vial before opening. Suspend the product by gently pipetting the above recommended solution down the sides of the vial. DO NOT VORTEX. Allow several minutes for complete reconstitution. For prolonged storage, dilute to working aliquots in a 0.1% BSA solution, store at -80°C and avoid repeat freeze thaws.

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



SDS-PAGE - Recombinant mouse EGF protein (Animal Free) (ab206643)

SDS-PAGE analysis of **ab216643** (1 µg) stained with Coomassie blue:

Lane 1: Non-reduced

Lane 2: Reduced

4-20% Tris-Glycine gel

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