

ARG70308 Mouse EGF (pro) recombinant protein (His-tagged, C-ter)

Package: 50 µg

Store at: -20°C

Summary

Product Description	HEK293 expressed, His-tagged (C-ter) Mouse EGF (pro) recombinant protein.
Tested Reactivity	Ms
Tested Application	Binding, SDS-PAGE
Target Name	EGF (pro)
Species	Mouse
A.A. Sequence	Trp29 - Arg1029 of Mouse pro-EGF (NP_034243.2) with 6X His tag at the C-terminus.
Expression System	HEK293
Alternate Names	Urogastrone; Pro-epidermal growth factor; URG; HOMG4; EGF

Application Instructions

Application Note	Binding activity test: Measured by its binding ability in a functional ELISA. Immobilized Recombinant Mouse pro-EGF at 200 ng/ml (100 µl/well) can bind Recombinant Human EGFR with a linear range of 5-12ng/ml.
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Properties

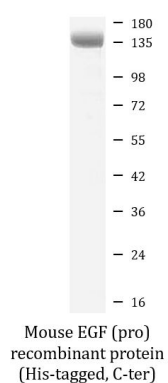
Form	Powder
Purification Note	0.22 µm filter sterilized. Endotoxin level is 95% (by SDS-PAGE)
Buffer	PBS (pH 7.4)
Reconstitution	Reconstitute to a concentration of 0.1 - 0.5 mg/ml in sterile distilled water.
Storage instruction	For long term, lyophilized protein should be stored at -20°C or -80°C. After reconstitution, aliquot and store at -20°C for up to one month, at 2-8°C for up to one week. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol	EGF
Gene Full Name	epidermal growth factor
Background	This gene encodes a member of the epidermal growth factor superfamily. The encoded preproprotein is proteolytically processed to generate the 53-amino acid epidermal growth factor peptide. This protein acts a potent mitogenic factor that plays an important role in the growth, proliferation and differentiation of numerous cell types. This protein acts by binding with high affinity to the cell surface receptor, epidermal growth factor receptor. Defects in this gene are the cause of hypomagnesemia type 4. Dysregulation of this gene has been associated with the growth and progression of certain cancers. Alternative splicing results in multiple transcript variants, at least one of which encodes a preproprotein that is proteolytically processed. [provided by RefSeq, Jan 2016]

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 <i>Lymnaea stagnalis</i> in vitro (PubMed:10964941). [UniProt]
Calculated Mw	134 kDa
PTM	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). [UniProt]
Cellular Localization	Membrane; Single-pass type I membrane protein. [UniProt]

Images



ARG70308 Mouse EGF (pro) recombinant protein (His-tagged, C-ter)
SDS-PAGE image

SDS-PAGE analysis of ARG70308 Mouse EGF (pro) recombinant protein (His-tagged, C-ter).