

## ARG83039 Mouse EGF ELISA Kit

Package: 96 wells  
Store at: 4°C

### Summary

Product Description	ARG83039 Mouse EGF ELISA Kit is an Enzyme Immunoassay kit for the quantification of Mouse EGF in serum, plasma (heparin), ascites, urine and cell culture supernatants.
Tested Reactivity	Ms
Tested Application	ELISA
Specificity	Not cross-reacts with: Human EGF, HB EGF, VEGF, FGF19, PDGF BB, TGF alpha ,TGF beta1. Mouse IL6, IL8, HGF, VEGF, FGF21, GM CSF, IGF1. Porcine EGF, VEGF, TGF beta1.
Target Name	EGF
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm.
Sensitivity	1.95 pg/ml
Sample Type	Serum, plasma (heparin), ascites, urine and cell culture supernatants.
Standard Range	3.9 - 250 pg/ml
Sample Volume	100 µl
Precision	Intra-Assay CV: less than 10% Inter-Assay CV: less than 10%
Alternate Names	EGF

### Application Instructions

Assay Time	~ 4 hours
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### Properties

Form	96 well
Storage instruction	Store the kit at 2-8°C. Keep microplate wells sealed in a dry bag with desiccants. Do not expose test reagents to heat, sun or strong light during storage and usage. Please refer to the product user manual for detail temperatures of the components.
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 *Lymnaea stagnalis* in vitro. [UniProt]

#### Highlight

Related products:

[EGF antibodies](#); [EGF ELISA Kits](#); [EGF Duos / Panels](#); [EGF recombinant proteins](#);

New ELISA data calculation tool:

[Simplify the ELISA analysis by GainData](#)

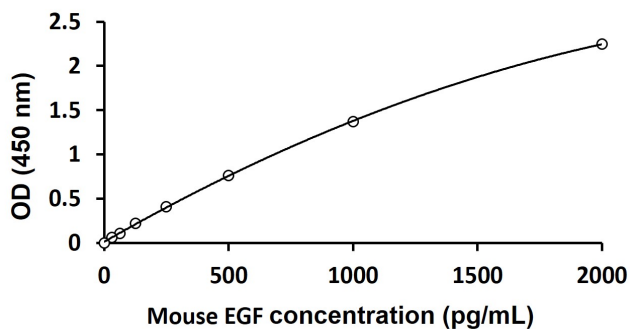
#### PTM

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. [UniProt]

## Images



ARG83039 Mouse EGF ELISA Kit standard curve image

ARG83039 Mouse EGF ELISA Kit results of standard run with optical density reading at 450 nm