

## ARG81638 Mouse EGF ELISA Kit

Package: 96 wells  
Store at: 4°C

### Component

Cat. No.	Component Name	Package	Temp
ARG81638-001	Antibody-coated microplate	8 X 12 strips	4°C. Unused strips should be sealed tightly in the air-tight pouch.
ARG81638-002	Standard	2 X 10 ng/vial	4°C
ARG81638-003	Standard/Sample diluent	30 ml (Ready to use)	4°C
ARG81638-004	Antibody conjugate concentrate (100X)	1 vial (100 µl)	4°C
ARG81638-005	Antibody diluent buffer	12 ml (Ready to use)	4°C
ARG81638-006	HRP-Streptavidin concentrate (100X)	1 vial (100 µl)	4°C
ARG81638-007	HRP-Streptavidin diluent buffer	12 ml (Ready to use)	4°C
ARG81638-008	25X Wash buffer	20 ml	4°C
ARG81638-009	TMB substrate	10 ml (Ready to use)	4°C (Protect from light)
ARG81638-010	STOP solution	10 ml (Ready to use)	4°C
ARG81638-011	Plate sealer	4 strips	Room temperature

### Summary

Product Description	ARG81638 Mouse EGF ELISA Kit is an Enzyme Immunoassay kit for the quantification of Mouse EGF in serum, plasma (heparin, EDTA), urine and cell culture supernatants.
Tested Reactivity	Ms
Tested Application	ELISA
Specificity	There is no detectable cross-reactivity with other relevant proteins.
Target Name	EGF
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm.
Sensitivity	3.9 pg/ml
Sample Type	Serum, plasma (heparin, EDTA), urine and cell culture supernatants.
Standard Range	7.8 - 500 pg/ml
Sample Volume	100 µl

Precision	Intra-Assay CV: 6.9%; Inter-Assay CV: 7.8%
Alternate Names	Urogastrone; Pro-epidermal growth factor; URG; HOMG4; EGF

## Application Instructions

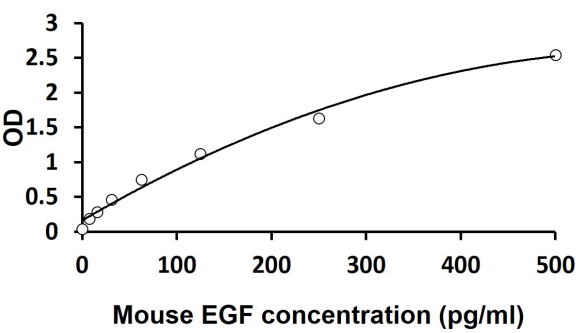
Assay Time	~ 5 hours
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## Properties

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 protein is synthesized as a large precursor molecule that is proteolytically cleaved 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 the high affinity 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. Alternate splicing results in multiple transcript variants.[provided by RefSeq, May 2010]
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. [UniProt]
Highlight	Related products: <a href="#">EGF antibodies</a> ; <a href="#">EGF ELISA Kits</a> ; <a href="#">EGF Duos / Panels</a> ; <a href="#">EGF recombinant proteins</a> ; New ELISA data calculation tool: <a href="#">Simplify the ELISA analysis by GainData</a>
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]



ARG81638 Mouse EGF ELISA Kit standard curve image

ARG81638 Mouse EGF ELISA Kit results of a typical standard run with optical density reading at 450 nm.