

ARG80137 Human EGF ELISA Kit

Package: 96 wells
Store at: 4°C

Component

Cat. No.	Component Name	Package	Temp
ARG80137-001	Antibody-coated microplate	8 X 12 strips	4°C. Unused strips should be sealed tightly in the air-tight pouch.
ARG80137-002	Standard (Lyophilized)	3 X 1 ng/vial	4°C
ARG80137-003	Standard diluent buffer	20 ml	4°C
ARG80137-004	Antibody conjugate concentrate	400 µl	4°C
ARG80137-005	Antibody diluent buffer	16 ml	4°C
ARG80137-006	HRP-Streptavidin concentrate	400 µl	4°C (Protect from light)
ARG80137-007	HRP-Streptavidin diluent buffer	16 ml	4°C
ARG80137-008	20X Wash buffer	50 ml	4°C
ARG80137-009	TMB substrate	12ml	4°C (Protect from light)
ARG80137-010	STOP solution	12ml	4°C
ARG80137-011	Plate sealer	4 strips	Room temperature

Summary

Product Description	ARG80137 Human EGF ELISA Kit is an Enzyme Immunoassay kit for the quantification of Human EGF in Serum, Plasma, Cell culture supernatants.
Tested Reactivity	Hu
Tested Application	ELISA
Specificity	No significant cross-reactivity or interference with Human Amphiregulin, Betacellulin, EGFR, Epigen, Epiregulin, ErbB2,3,4, HB-EGF, NRG1/HRG1, NRG1 Isoform SMDF, NRG1- alpha/HRG1- alpha EGF Domain, NRG1- beta1/HRG1- beta1 EGF Domain, NRG1- beta1/HRG1- beta1 ECD, TNF- alpha
Target Name	EGF
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm
Sensitivity	4 pg/ml
Sample Type	Serum, Plasma, Cell culture supernatants

Standard Range	7.8 - 500 pg/ml
Sample Volume	100 µl
Precision	CV: less than 10%
Alternate Names	Urogastrone; Pro-epidermal growth factor; URG; HOMG4; EGF

Application Instructions

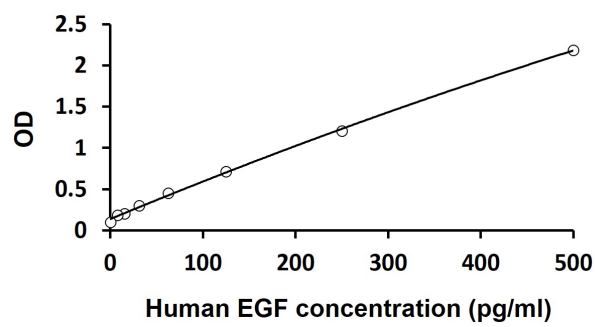
Assay Time	4 hours
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Properties

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 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 as 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 (PubMed:10964941). [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
Research Area	Cancer kit; Cell Biology and Cellular Response kit; Signaling Transduction kit
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).



ARG80137 Human EGF ELISA Kit standard curve image

ARG80137 Human EGF ELISA Kit results of a typical standard run with optical density reading at 450 nm.