

## Active Recombinant Human EGF Protein

Cat. No. EGF-023H Lot. No. (See product label)

### SPECIFICATION

**Product Overview** Recombinant human EGF (rhEGF) Asn971-Arg1023 (Accession # P01133) was produced in HEK293 cells.

**Species** Human

**Source** HEK293

**ProteinLength** 971-1023 a.a.

**Description** 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]

**Bio-activity** Measured in a cell proliferation assay using Balb/3T3 mouse embryonic fibroblasts. The ED50 for this effect is typically 20-100 pg/mL.

**Molecular Mass** rhEGF has a calculated MW of 6.3 kDa. DTT-reduced protein migrates as 6.3 kDa estimated polypeptide in SDS-PAGE.

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<b>Endotoxin</b>	Less than 1.0 EU per 1 g of the rhEGF by the LAL method.
<b>Purity</b>	>97% as determined by SDS-PAGE. All lots are greater than 97% pure.
<b>Notes</b>	Research Use Only. Not for use in diagnostic or therapeutic procedures.
<b>Storage</b>	Store at -20 centigrade in lyophilized state after receipt. For long term storage, upon reconstitution rhEGF should be aliquot and store at -20 centigrade or -8 centigrade centigrade. Avoid repeated freeze-thaw cycles.
<b>Storage Buffer</b>	Bulk protein in a 0.22 µ filtered solution of PBS, pH 7.4 and delivered as liquid formulation or lyophilized powder. Normally 5-8% trehalose and mannitol are added as protectants before lyophilization.

## GENE INFORMATION

<b>Gene Name</b>	EGF epidermal growth factor [ Homo sapiens ]
<b>Official Symbol</b>	EGF
<b>Synonyms</b>	EGF; epidermal growth factor; epidermal growth factor (beta urogastrone); pro-epidermal growth factor; beta-urogastrone; URG; HOMG4;
<b>Gene ID</b>	1950
<b>mRNA Refseq</b>	NM_001178130
<b>Protein Refseq</b>	NP_001171601
<b>MIM</b>	131530

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