

Active Recombinant Human EGF Protein, Pre-aliquoted

Cat. No. EGF-16H Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant Human EGF Protein, Asn971 - Arg1023, with an N-terminal Met, was expressed in E. coli.

Species Human

Source E.coli

ProteinLength Asn971-Arg1023, with an N-terminal Met

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.

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

Molecular Mass Predicted Molecular Mass:6 kDa
SDS-PAGE: 6 kDa, reducing conditions

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N-terminal Sequence Analysis	Met
Endotoxin	< 0.10 EU/μg of the protein by the LAL method.
Purity	> 97% by SDS-PAGE under reducing conditions and visualized by silver stain.
Stability	<p>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</p> <ul style="list-style-type: none"> • 6 months from date of receipt at room temperature as supplied. • 12 months from date of receipt at 2-8 centigrade as supplied. • 1 month at 2-8 centigrade under sterile conditions after reconstitution. • 3 months at -20 to -80 centigrade under sterile conditions after reconstitution.
Reconstitution	For a stock solution, reconstitute at 500 μg/mL in sterile PBS, or simply roll Pre-aliquoted directly into cell culture medium for immediate use.
Shipping	The product is shipped at ambient temperature.

GENE INFORMATION

Gene Name	EGF epidermal growth factor [Homo sapiens (human)]
Official Symbol	EGF
Synonyms	EGF; epidermal growth factor; URG; HOMG4; pro-epidermal growth factor; beta-urogastrone
Gene ID	1950
mRNA Refseq	NM_001963

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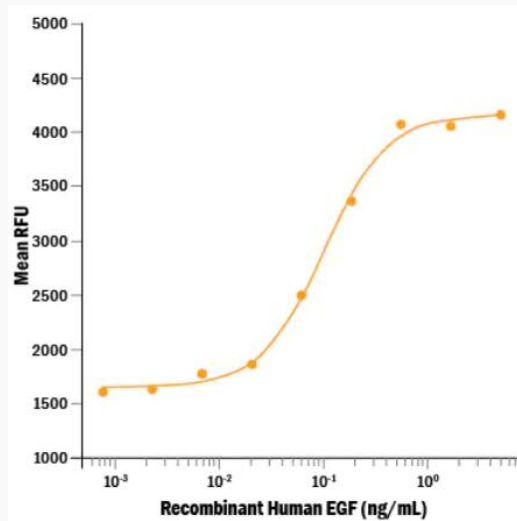
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Protein Refseq NP_001954

MIM 131530

UniProt ID P01133

Binding Activity



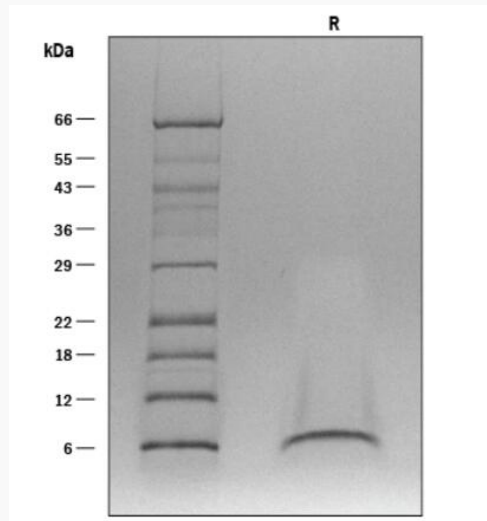
Recombinant Human EGF stimulates cell proliferation of the Balb/3T3 mouse embryonic fibroblast cell line. The ED50 for this effect is 20-100 pg/mL.

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SDS-PAGE



1 µg/lane of Recombinant Human EGF was resolved with SDS-PAGE under reducing (R) conditions and visualized with silver staining, showing a single band at 6 kDa.

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