

Epidermal Growth Factor Recombinant Protein | EGF recombinant protein

Human Epidermal Growth Factor Recombinant

CATALOG #	HOST
AAA76082	E Coli (Host protein expression may be lot-specific and can be subject to change during production, including bulk orders)

PRODUCT SYNONYMS

Epidermal Growth Factor; Human Epidermal Growth Factor Recombinant; egf; epidermal growth factor; EGF recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli (Host protein expression may be lot-specific and can be subject to change during production, including bulk orders)
Purity/Purification	>95%, as determined by SDS-PAGE and HPLC
Form/Format	Recombinant Epidermal Growth Factor was lyophilized from a 0.2um filtered PBS solution, pH 7.2 with 5% trehalose and 5% mannitol
Sequence	REDDHHYSVR NSDSECPLSH DGYCLHDGVC MYIEALDKYA CNCVVG YIGE RCQYRDLKWW ELRHAGHGQQ QKVIVVAVCV VVLVMLLLS LWGAHYRTQ KLSKNPKNP YEESSRDVRS RRPADTEDGM SSCPQWFVW IKEHQDLKNG GQPVAGEDGQ AADGSMQPTS WRQEPQLCGM GTEQGCWIPV SSDKGSCPQV MERSFHMP SY GTQTLEGGVE KPHSLLSANP LWQQRALDPP HQMELTQ
Sequence Length	1165
Source	Optimized DNA sequence encoding Human EGF mature chain was expressed in Escherichia Coli.
Endotoxin	Endotoxin content was assayed using a LAL gel clot method. Endotoxin level was found to be less than 0.1 ng/ug (1EU/ug).
Reconstitution	A quick spin of the vial followed by reconstitution in distilled water to a concentration not less than 0.1 mg/mL. This solution can then be diluted into other buffers.
Biological Activity	The ED50 was determined by a cell proliferation assay using balb/c 3T3 cells is ≤ 0.5 ng/ml, corresponding to a specific activity of $\geq 2 \times 10^7$ units/mg
Preparation and Storage	The lyophilized protein is stable for at least 2 years from date of receipt at -20 degree C. Upon reconstitution, this cytokine can be stored in working aliquots at 2 degree - 8 degree C for one month, or at -20 degree C for six months, with a carrier protein without detectable loss of activity. Avoid repeated freeze/thaw cycles.

ADDITIONAL INFORMATION

Product Categories/Family for EGF recombinant protein	Cytokines
References	- thrombin induces EGF receptor expression and cell proliferation via a pkc () /c-src-dependent pathway in vascular smooth muscle cells .Arterioscler Thromb Vasc Biol, Oct 2009; 29: 1594 - 1601. - dependence of EGF-induced increases in corneal epithelial proliferation and migration on gsk-3 inactivation . Invest. Ophthalmol. Vis. Sci., Oct 2009; 50: 4828 - 4835. - internalization and intracellular sorting of the EGF receptor: a model for understanding the mechanisms of receptor trafficking .J. Cell Sci., Oct 2009; 122: 3433 - 3439. - angiotensin ii maintains cerebral vascular relaxation via EGF receptor transactivation and erk1/2 .Am J Physiol Heart Circ Physiol, Oct 2009; 297: H1296 - H1303. - g protein-coupled receptor 30 expression is up-regulated by EGF and tgf in estrogen receptor -positive cancer cells .Mol. Endocrinol., Sep 2009; 10.1210/me.2009-0120.

NCBI AND UNIPROT INFORMATION

NCBI GI #	296011015
NCBI GeneID	1950
NCBI Accession #	NP_001171602.1
NCBI GenBank Nucleotide #	NM_001178131.1
UniProt Accession #	P01133; Q52LZ6; B4DRK7; E9PBF0; Q6QBS2
Molecular Weight	Recombinant Human EGF contains 54 amino acids and migrates as an approximately 6 kDa protein under reducing conditions in SDS-PAGE
NCBI Official Full Name	pro-epidermal growth factor isoform 3 preproprotein
UniProt Protein Name	Pro-epidermal growth factor
UniProt Gene Name	EGF
UniProt Synonym Gene Names	EGF
UniProt Entry Name	EGF_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/egf-recombinant-protein-e-coli/76082>