

EGF Protein, Human (Solution, HEK293, N-hFc)

Cat. No.:	HY-P72982
Synonyms:	Pro-epidermal growth factor; Urogastrone; EGF; HOMG4
Species:	Human
Source:	HEK293
Accession:	NP_001954.2 (N971-R1023)
Gene ID:	1950
Molecular Weight:	Approximately 37 kDa

PROPERTIES

AA Sequence	N S D S E C P L S H D G Y C L H D G V C M Y I E A L D K Y A C N C V V G Y I G E R C Q Y R D L K W W E L R
Biological Activity	Measured in a cell proliferation assay using Balb/C 3T3 mouse embryonic fibroblast cells and the ED ₅₀ is typically 0.3-1.5 ng/mL.
Appearance	Solution.
Formulation	Supplied as a 0.2 µm filtered solution of PBS, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	N/A.
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice

DESCRIPTION

Background	<p>The EGF Protein, a member of the epidermal growth factor superfamily, encodes a preproprotein that undergoes proteolytic processing to yield the 53-amino acid epidermal growth factor peptide. Functioning as a potent mitogenic factor, this protein plays a crucial role in the growth, proliferation, and differentiation of various cell types by binding with high affinity to the cell surface receptor, epidermal growth factor receptor. Defects in this gene are associated with hypomagnesemia type 4, while dysregulation has been implicated in the growth and progression of certain cancers. Alternative splicing produces multiple transcript variants, including at least one encoding a preproprotein that undergoes proteolytic processing. Notably, the gene exhibits biased expression, with elevated levels in the kidney (RPKM 47.7), pancreas (RPKM 9.8), and one other tissue, highlighting its potential significance in these physiological contexts.</p>
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Caution: Product has not been fully validated for medical applications. For research use only.

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