

EGF Protein, Human (HEK293, N-hFc)

Cat. No.:	HY-P72982A
Synonyms:	Pro-epidermal growth factor; Urogastrone; EGF; HOMG4
Species:	Human
Source:	HEK293
Accession:	NP_001954.2 (N971-R1023)
Gene ID:	1950
Molecular Weight:	Approximately 33-38 kDa

PROPERTIES

AA Sequence	<p> 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 </p>
Biological Activity	Measured in a cell proliferation assay using Balb/C 3T3 mouse embryonic fibroblast cells. The ED ₅₀ for this effect is <1.5 ng/mL.
Appearance	Lyophilized powder
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

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</p>
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9.8), and one other tissue, highlighting its potential significance in these physiological contexts.

Caution: Product has not been fully validated for medical applications. For research use only.

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