Native Human EGF

Cat. No. EGF-26462TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Full length protein (Human) protein having a single, glycosylated, polypeptide chain containing 51 amino acids. M.Wt 6 kDa.Source: Pichia Pastoris.
Species	Human
Description	This gene encodes a member of the epidermal growth factor superfamily. The encoded protein is synthesized as a large precursor molecule that is proteolytically cleaved 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 the high affinity 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. Alternate splicing results in multiple transcript variants.
Tissue specificity	Expressed in kidney, salivary gland, cerebrum and prostate.
Form	Lyophilised:It is recommended to reconstitute the lyophilized Epidermal Growth Factor in sterile water to not less than 100µg/ml, which can then be further diluted to other aqueous solutions.
Purity	>95% by SDS-PAGE
Storage buffer	Preservative: NoneConstituents: 150mM Sodium chloride, 25mM Sodium bicarbonate, pH 7.5

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Storage	Store at +4°C short term (1-2 weeks). Aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Sequences of amino acids	The sequence of the first five N-terminal amino acids was determined and was found to be Asn-Ser-Asp-Ser-Glu, which agrees with the sequence of native human EGF. N-terminal methionine has been completely removed enzymatically.
Sequence Similarities	Contains 9 EGF-like domains.Contains 9 LDL-receptor class B repeats.
Full Length	Full L.

GENE INFORMATION

Gene Name	EGF epidermal growth factor [Homo sapiens]
Official Symbol	EGF
Synonyms	EGF; epidermal growth factor; epidermal growth factor (beta urogastrone); pro-epidermal growth factor;
Gene ID	1950
mRNA Refseq	NM_001178130
Protein Refseq	NP_001171601
MIM	131530
Uniprot ID	P01133
Chromosome	4q25

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Location	
Pathway	Arf6 signaling events, organism-specific biosystem; Bladder cancer, organism-specific biosystem; Bladder cancer, conserved biosystem; Ceramide signaling pathway, organism-specific biosystem; Cytokine-cytokine receptor interaction, organism-specific biosystem;
Function	calcium ion binding; epidermal growth factor receptor binding; growth factor activity; protein binding; transmembrane receptor protein tyrosine kinase activator activity;

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