

Product datasheet for **BIN031**

EGF Human Protein

Product data:

Product Type:	Recombinant Proteins
Description:	EGF human recombinant protein, 1 mg
Species:	Human
Expression Host:	<i>Pichia pastoris</i>
Concentration:	lot specific
Purity:	>95% pure by SDS-PAGE (compares with reference lot).
Buffer:	Presentation State: Azide Free State: Liquid purified protein Buffer System: 20 mM Tris-HCl buffer containing 150 mM Sodium Chloride, pH 7.5 with no preservatives
Preparation:	Liquid purified protein
Applications:	Suitable for use in Western blot.
Protein Description:	Recombinant Human Epidermal Growth Factor (EGF) containing 1-51 amino acid residues overexpressed in <i>Pichia pastoris</i> . Single immunospecific band at 5 kDa and may appear as a doublet.
Storage:	Upon receipt, store (in aliquots) at -20°C to -80°C. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
RefSeq:	NP_001171601
Locus ID:	1950
UniProt ID:	P01133
Cytogenetics:	4q25
Synonyms:	HOMG4; URG



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Summary:

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. [provided by RefSeq, Jan 2016]

Protein Families:

Adult stem cells, Druggable Genome, Embryonic stem cells, ES Cell Differentiation/IPS, Induced pluripotent stem cells, Transmembrane

Protein Pathways:

Bladder cancer, Cytokine-cytokine receptor interaction, Endocytosis, Endometrial cancer, ErbB signaling pathway, Focal adhesion, Gap junction, Glioma, MAPK signaling pathway, Melanoma, Non-small cell lung cancer, Pancreatic cancer, Pathways in cancer, Prostate cancer, Regulation of actin cytoskeleton