

## Product datasheet for **AR50004PU-N**

### EGF Human Protein

#### Product data:

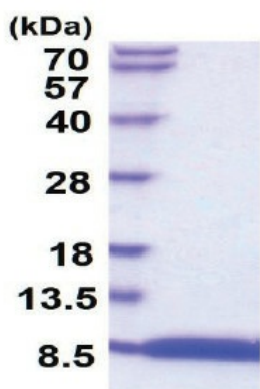
Product Type:	Recombinant Proteins
Description:	EGF human recombinant protein, 0.5 mg
Species:	Human
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	MNSDSECPHS HDGYCLHDGV CMYIEALDKY ACNCVVG YIG ERCQYRDLKW WELR
Predicted MW:	6.3 kDa
Concentration:	lot specific
Purity:	>95% by SDS - PAGE
Buffer:	Presentation State: Purified State: Liquid purified protein Buffer System: Phosphate -buffered saline (PBS), pH 7.4
Bioactivity:	Specific: The ED50 for this effect is $\leq 0.1$ ng/ml . Measured in a cell proliferation assay using mouse Balb3T3 cell.
Preparation:	Liquid purified protein
Protein Description:	Recombinant EGF was expressed in E.coli and purified by conventional column chromatography, after refolding of the isolated inclusion bodies in a renaturation buffer.
Note:	<b><u>Activity Assay</u></b>  Cell line: Balb-3T3 (Mus musculus (mouse)). Maintenance Condition: RPMI 1640 containing 10% FBS. Assay medium: serum free RPMI 1640. Cell density: $2 \times 10,000$ cells/well (96 well plate, final volume 100ul). Serum Free Starvation: 24hr with RPMI1640. Incubation time: 24 hr (after sample treatment). Concentration range: 1 pg/ml - 1 ug/ml. Detection method: Brdu assay.
Storage:	Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer. Avoid repeated freezing and thawing.



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<b>Stability:</b>	Shelf life: one year from despatch.
<b>RefSeq:</b>	<a href="#">NP_001171601</a>
<b>Locus ID:</b>	1950
<b>UniProt ID:</b>	<a href="#">P01133</a>
<b>Cytogenetics:</b>	4q25
<b>Synonyms:</b>	Urogastrone, Epidermal growth factor, URG, HOMG4
<b>Summary:</b>	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]
<b>Protein Families:</b>	Adult stem cells, Druggable Genome, Embryonic stem cells, ES Cell Differentiation/IPS, Induced pluripotent stem cells, Transmembrane
<b>Protein Pathways:</b>	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

### Product images:



15% SDS-PAGE (3ug)