Recombinant Pig EGF Protein, His-tagged

Cat. No. EGF-899P **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Pig EGF Protein (Asn970-Arg1022) with His tag was expressed in 293F.
Species	Pig
Source	HEK293
ProteinLength	Asn970-Arg1022
Description	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.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 8.7 kDa; Accurate Molecular Mass: 17-20 kDa
Purity	> 90%

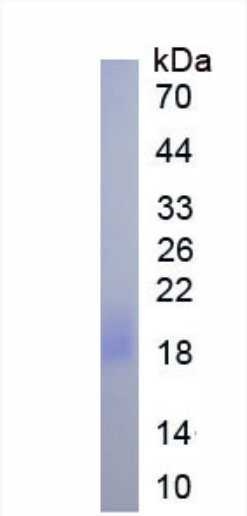
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Applications	Positive Control; Immunogen; SDS-PAGE; WB.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	EGF epidermal growth factor [Sus scrofa (pig)]
Official Symbol	EGF
Synonyms	EGF; epidermal growth factor; pro-epidermal growth factor;
Gene ID	397083
mRNA Refseq	NM_214020
Protein Refseq	NP_999185
UniProt ID	Q00968

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