

Epiregulin Recombinant Protein | EREG recombinant protein

Recombinant human Epiregulin protein

CATALOG # AAA48415	HOST HEK293	APPLICATIONS SDS-Page
------------------------------	-----------------------	---------------------------------

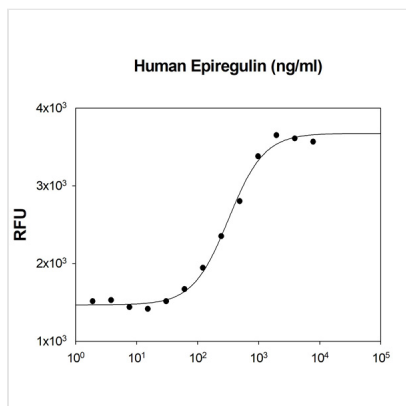
PRODUCT SYNONYMS

Epiregulin; Recombinant human Epiregulin protein; Ep; EPR; ER; Proepiregulin; EREG; EREG recombinant protein

PRODUCT SPECIFICATIONS

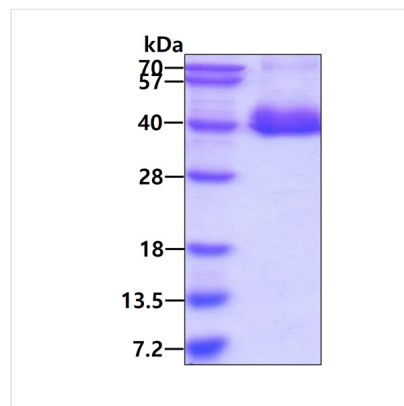
Host	HEK293
Purity/Purification	> 90% by SDS-PAGE
Form/Format	Liquid. In Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol
Concentration	0.25mg/ml (determined by Absorbance at 280nm) (varies by lot)
Sequence Positions	63-108aa
Sequence	VSIT KCSSDMNGYC LHGQCIYLDV MSQNYCRCEV GYTGVRCHEF FL
Applicable Applications for EREG recombinant protein	Bioactivity, SDS-PAGE
Species	Human
Tag	hIgG-His-Tag
Predicted Nterm	Asp
Endotoxin	< 1 EU per 1ug of protein (determined by LAL method)
Bioactivity	Measured in a cell proliferation assay using Balb/3T3 mouse embryonic fibroblast cells. The ED50 range <= 1 ug/ml.
Preparation and Storage	Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

IMAGES



Bioactivity

Human Epiregulin stimulates cell proliferation of the Balb/3T3 mouse embryonic fibroblast cells. The ED50 range



SDS-PAGE

3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain

ADDITIONAL INFORMATION

Related Product Information for EREG recombinant protein	Epiregulin is a member of the epidermal growth factor family. It is expressed primarily in the placenta and macrophages and high level expression has also been detected in various carcinomas. This protein contributes to inflammation, wound healing, tissue repair, and oocyte maturation by regulating angiogenesis and vascular remodeling and by stimulating cell proliferation. Epiregulin is growth factors involved in cancer development. Deregulated epiregulin activity appears to contribute to the progression of a number of different malignancies, including cancers of the bladder, stomach, colon, breast, lung, head and neck, and liver. It inhibit the growth of several epithelial tumor cells and stimulated the growth of fibroblasts and various other types of cells. In addition, it has been implicated in the implantation process during pregnancy. Recombinant human Epiregulin, fused to hIgG-His-tag at C-terminus, was expressed in HEK293 cell and purified by using conventional chromatography techniques.
Product Categories/Family for EREG recombinant protein	Signal Transduction; Hormones & Cytokines
References	Shaowei Li., et al, (2008) Anticancer Res. 105:3539-3544. ;; Yamamoto T., et al, (2004) Anticancer Res. 24:2007-2010.;; Cho MC., et al, (2008) Biochem. Biophys. Res. 377:832-837.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4557567
NCBI GeneID	2069
NCBI Accession #	NP_001423.1
NCBI GenBank Nucleotide #	NM_001432.2
UniProt Accession #	O14944; Q6FH69; B2RC66
Molecular Weight	19,044 Da
NCBI Official Full Name	proepiregulin preproprotein
NCBI Official Synonym Full Names	epiregulin
NCBI Official Symbol	EREG
NCBI Official Synonym Symbols	ER; Ep; EPR
NCBI Protein Information	proepiregulin
UniProt Protein Name	Proepiregulin
UniProt Gene Name	EREG
UniProt Synonym Gene Names	EPR
UniProt Entry Name	EREG_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.