

Recombinant human EGFR protein

Catalog Number: ATGP3335

PRODUCT INFORMATION

Expression system

CHO Cell

Domain

25-645aa

UniProt No.

P00533

NCBI Accession No.

NP_005219

Alternative Names

Epidermal growth factor receptor, ERBB, ERBB1, HER1, NISBD2, PIG61, mENA, ERRP, Proto-oncogene c-ErbB-1, Receptor tyrosine-protein kinase erbB-1, erythroblastic leukemia viral (v-erb-b) oncogene homolog (avian)

PRODUCT SPECIFICATION

Molecular Weight

95.5 kDa (860aa)

Concentration

0.25mg/ml (determined by absorbance at 280nm)

Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

Purity

> 90% by SDS-PAGE

Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

Tag

hIgG-His-Tag

Application

SDS-PAGE

Storage Condition

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.

BACKGROUND

Description

EGFR, also known as epidermal growth factor receptor, is a member of the ErbB family of receptors, a subfamily of four closely related receptor tyrosine kinase. This protein is type I transmembrane glycoprotein that binds a subset of EGF family ligands including EGF, amphiregulin, TGF-alpha, betacellulin, etc. It can also be recruited to

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form heterodimers with the ligand activated ErbB3 or ErbB4. EGFR signaling regulates multiple biological functions including cell proliferation, differentiation, motility, and apoptosis. It is overexpressed in a wide variety of tumors and is the target of several anti-cancer drugs. Recombinant human EGFR, fused to hlgG-His-tag at C-terminus, was expressed in CHO cell and purified by using conventional chromatography techniques.

Amino acid Sequence

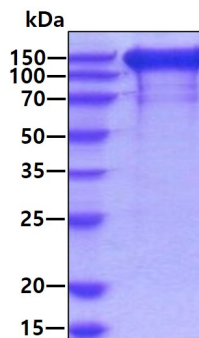
LEEKKVCQGT SNKLTQLGTF EDHFLSLQRM FNNCEVVLGN LEITYVQRNY DLSFLKTIQE VAGYVLIALN TVERIPLNL
 QIIRGNMYYE NSYALAVLSN YDANKTGLKE LPMRNLQEIL HGAVRFSNNP ALCNVESIQW RDIVSSDFLS NMSMDFQNL
 GSCQKCDPSC PNGSCWGAGE ENCQKLTII CAQQCSGRGR GKSPSDCCHN QCAAGCTGPR ESDCLVCRKF RDEATCKDTC
 PPLMLYNPTT YQMDVNPEGK YSFGATCVKK CPRNYVVDH GSCVRACGAD SYEMEEDGVR KCKKCEGPCR KVCNGIGIGE
 FKDSLINAT NIKHFKNCTS ISGDLHILPV AFRGDSFTHT PPLDPQELDI LKTVKEITGF LLIQAWPENR TDLHAFENLE
 IIRGRTKQHG QFSLAVVSLN ITSLGLRSLK EISDGDVIIS GNKNLCYANT INWKKLFGTS GQKTKIISNR GENCKATGQ
 VCHALCSPEG CWGPEPRDCV SCRNVSRGRE CVDKCNLLEG EPREFVENSE CIQCHPECLP QAMNITCTGR GPDNCIQCAH
 YIDGPHCVKT CPAGVMGENN TLVWKYADAG HVCHLCHPNC TYGCTGPGLE GCPTNGPKIP S<RSPKSCDKT HTCPCPAPE
 LLGGPSVFLF PPKPKDTLMI SRTPEVTCVV VDVSHEDPEV KFNWYVDGVE VHNAKTKPRE EQYNSTYRVV SVLTVLHQDW
 LNGKEYKCKV SNKALPAPIE KTISKAKGQP REPQVYLPP SRDELTKNQV SLTCLVKGFY PSDIAVEWES NGQPENNYKT
 TPPVLDSDGS FFLYSKLTVD KSRWQQGNVF SCSVMHEALH NHYTKSLSL SPGKHHHHHH>

General References

Schlessinger J., et al. (200) Cell. 103:211-225.
 Singh A.B., et al. (2005) Cell. Signal. 17:1183-1193.

DATA

SDS-PAGE



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