Recombinant Human EGFR protein, hIgG-His-tagged

Cat. No. EGFR-55H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human EGFR, fused to hIgG-His-tag at C-terminus, was expressed in CHO cell and purified by using conventional chromatography techniques.
Species	Human
Source	CHO
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 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.
Source	CHO
Species	Human
Tag	His&Fc
Form	Liquid. In Phosphate Buffered Saline (pH 7.4) containing 10% glycerol.
Molecular Mass	95.5kDa (860aa)100-150KDa (SDS–PAGE under reducing conditions.)

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AA Sequence	LEEKKVCQGT SNKLTQLGTF EDHFLSLQRM FNNCEVVLGN LEITYVQRNY DLSFLKTIQE VAGYVLIALN TVERIPLENL QIIRGNMYYENSYALAVLSN YDANKTGLKE LPMRNLQEIL HGAVRFSNNP ALCNVESIQW RDIVSSDFLS NMSMDFQNHL GSCQKCDPSC PNGSCWGAGEENCQKLTKII CAQQCSGRCR GKSPSDCCHN QCAAGCTGPR ESDCLVCRKF RDEATCKDTC PPLMLYNPTT YQMDVNPEGK YSFGATCVKKCPRNYVVTDH GSCVRACGAD SYEMEEDGVR KCKKCEGPCR KVCNGIGIGE FKDSLSINAT NIKHFKNCTS ISGDLHILPV AFRGDSFTHTPPLDPQELDI LKTVKEITGF LLIQAWPENR TDLHAFENLE IIRGRTKQHG QFSLAVVSLN ITSLGLRSLK EISDGDVIIS GNKNLCYANTINWKKLFGTS GQKTKIISNR GENSCKATGQ VCHALCSPEG CWGPEPRDCV SCRNVSRGRE CVDKCNLLEG EPREFVENSE CIQCHPECLPQAMNITCTGR GPDNCIQCAH YIDGPHCVKT CPAGVMGENN TLVWKYADAG HVCHLCHPNC TYGCTGPGLE GCPTNGPKIP SRSPKSCDKTHTCPPCPAPE LLGGPSVFLF PPKPKDTLMI SRTPEVTCVV VDVSHEDPEV KFNWYVDGVE VHNAKTKPRE EQYNSTYRVV SVLTVLHQDWLNGKEYKCKV SNKALPAPIE KTISKAKGQP REPQVYTLPP SRDELTKNQV SLTCLVKGFY PSDIAVEWES NGQPENNYKT TPPVLDSDGSFFLYSKLTVD KSRWQQGNVF SCSVMHEALH NHYTQKSLSL SPGKHHHHHH
Endotoxin	< 1.0 EU per 1 microgram of protein (determined by LAL method)
Purity	>90% by SDS - PAGE
Storage	Can be stored at +4centigrade short term (1-2 weeks). For long term storage, aliquot and store at -20Centigrade or -70Centigrade. Avoid repeated freezing and thawing cycles.
Concentration	0.25mg/ml (determined by Absorbance at 280nm)

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GENE INFORMATION

Gene Name	EGFR epidermal growth factor receptor [Homo sapiens]
Official Symbol	EGFR
Synonyms	EGFR; ERBB1; ERBB; HER1; mENA; PIG61;
Gene ID	1956
mRNA Refseq	NM_005228
Protein Refseq	NP_005219
MIM	131550
UniProt ID	P00533
Chromosome Location	7p12
Pathway	Adherens junction, organism-specific biosystem; Adherens junction, conserved biosystem; Alpha6-Beta4 Integrin Signaling Pathway, organism-specific biosystem; Androgen Receptor Signaling Pathway, organism-specific biosystem; Arf6 signaling events, organism-specific biosystem; Axon guidance, organism-specific biosystem; Bladder cancer, organism-specific biosystem;
Function	ATP binding; MAPK/ERK kinase kinase activity; actin filament binding; double-stranded DNA binding; enzyme binding; epidermal growth factor-activated receptor activity; epidermal growth factor-activated receptor activity; identical protein binding; contributes_to nitric-oxide synthase regulator activity; nucleotide binding; protein

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	binding; protein heterodimerization activity

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