

Recombinant Human EGFR Protein (627 aa), His-tagged

Cat. No. EGFR-143E **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human Epidermal Growth Factor Receptor (rhEGFR) Protein (627aa, glycosylated), was expressed in Sf9 insect cells with C-terminal 6×His tag (molecular mass: 80kDa under reducing SDS-PAGE; purified via proprietary chromatographic techniques).
Species	Human
Source	Sf9 Cells
ProteinLength	627 aa
Description	Epidermal Growth Factor Receptor (EGFR) belongs to a family of tyrosine kinase receptors including Human EGF Receptors (HER) 2, 3, and 4 which all play important roles in cell growth and differentiation. Their primary ligands are EGF, Heparin-Binding EGF and Transforming Growth Factor α. Upon ligand binding, EGFR undergoes asymmetric dimerization, composed of an "activator" and a "receiver". EGFR and its family members are dysregulated in numerous cancers. In particular, EGFR is overexpressed in many epithelial solid tumors. Evidence suggests EGFR is an excellent target for pharmacologic intervention in Non Small Cell Lung Cancer (NSCLC) due to its high level of expression and prominent role in tumor growth and metastasis.
Form	Sterile Filtered White lyophilized (freeze-dried) powder.
Bio-activity	Bioassay data are not available.

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Molecular Mass	80kDa, observed by reducing SDS-PAGE.
AA Sequence	LEEKKVCQGTSNKLTQLGTFEDHFLSLQRMFNNCEVVLGNLEITYVQRNYDLSFLKTI QEVAGYVLIANTVERIPLNLQIIRGNMYEYNSYALAVLSNYDANKTGLKELPMRNL QEILHGAVRFSNNPALCNVESIQWRDIVSSDFLSNMSMDFQNHGSCQKCDPSCPN GSCWGAGEENCQKLTKIICAQQCSGRGRGKSPSDCCHNQCAAGCTGPRESCLV CRKFRDEATCKDTCPLMLYNPTTYQMDVNPEGKYSFGATCVKKCPRNYVVDTHG SCVRACGADSYEMEEDGVRKCKKCEGPCRKVCNGIGIGEFKDSLSINATNIKHFKNK TSISGDLHILPVAFRGDSFTHTPPLDPQELDILKTVKEITGFLLIQAWPENRTDLHAFE NLEIIRGRTKQHGQFSLAVVSLNITSLGLRSLKEISDGDVVISGNKNLCYANTINWKKLF GTSGQKTKIISNRGENSCKATGQVCHALCSPEGCWGPEPRDCVSCRNVSRGRECV DKCNLLEGEPRFVENSECIQCHPECLPQAMNITCTGRGPDNCIQCAHYIDGPHCVK TCPAGVMGENNTLVWKYADAGHVCHLCHPNCTYGCTGPGLEGCPNGPKIPSHHH HHH
Endotoxin	< 0.2 EU/μg, determined by LAL method.
Purity	> 95% by SDS-PAGE and HPLC analyses.
Storage	Lyophilized recombinant human Epidermal Growth Factor Receptor (rhEGFR) remains stable up to 6 months at -80 centigrade from date of receipt. Upon reconstitution, rhEGFR remains stable up to 2 weeks at 4 centigrade or up to 3 months at -20 centigrade.
Storage Buffer	Lyophilized after extensive dialysis against PBS.
Reconstitution	Reconstituted in ddH ₂ O at 100 μg/mL.

GENE INFORMATION

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Gene Name	EGFR epidermal growth factor receptor [Homo sapiens]
Official Symbol	EGFR
Synonyms	EGFR; epidermal growth factor receptor; epidermal growth factor receptor (avian erythroblastic leukemia viral (v erb b) oncogene homolog), ERBB; ERBB1; erythroblastic leukemia viral (v erb b) oncogene homolog (avian); proto-oncogene c-ErbB-1; cell growth inhibiting protein 40; cell proliferation-inducing protein 61; receptor tyrosine-protein kinase erbB-1; avian erythroblastic leukemia viral (v-erb-b) oncogene homolog; ERBB; HER1; mENA; PIG61;
Gene ID	1956
mRNA Refseq	NM_005228
Protein Refseq	NP_005219
MIM	131550
UniProt ID	P00533