

Active Recombinant Human EGFR Protein, His-tagged

Cat. No. EGFR-292E Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human EGFR Protein, was expressed in CHO with His tag.
Species	Human
Source	CHO
Description	EGF Receptor, also known as ERBB, ERBB1 and HER1, is a type I transmembrane protein belonging to the tyrosine protein kinase family. It binds to a subset of EGF family ligands, including EGF, TGF- α , amphiregulin, EPGN, BTC, EREG and HBEGF. Ligand binding triggers receptor homo- or hetero-dimerization, which induces downstream kinase activation, tyrosine phosphorylation and cell signaling. EGF receptor signaling has been shown to regulate cell proliferation, differentiation, motility and apoptosis.
Form	Sterile Filtered White lyophilized (freeze-dried) powder.
Bio-activity	ED50 < 1 μ g/mL, measured in a bioassay using 3T3 cells in the presence of 25 pg/mL human EGF.
Molecular Mass	95-115 kDa, observed by reducing SDS-PAGE.
AA Sequence	<p>LEEKKVCQGTSNKLTLGLTFEDHFLSLQRMFNCEVVLGNLEITYVQRNYDLSFLKTI QEVAGYVLIALNTVERIPLNQLIIRGNMYYENSYALAVLSNYDANKTGLKELPMRNL QEILHGAVRFSNNPALCNVESIQWRDIVSSDFLSNMSMDFQNHGSCQKCDPSCP GSCWGAGEENCQKLTKIICAQQCSGRCRGKSPSDCCHNQCAAGCTGPRESCLV</p>

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CRKFRDEATCKDTCPLMLYNPTTYQMDVNPEGKYSFGATCVKKCPRNYVVDHG
 SCVRACGADSYEMEEDGVRKCKKCEGPCRKVCNGIGIGEFKDSLSINATNIKHFKNC
 TSISGDLHILPVAFRGDSFTHTPPLDPQELDILKTVKEITGFLLIQAWPENRTDLHAFE
 NLEIIRGRTKQHGQFSLAVVSLNITSLGLRSLKEISDGDVVISGNKNLCYANTINWKKLF
 GTSGQKTKIISNRGENSCKATGQVCHALCSPEGCWGPEPRDCVSCRNVSRGRECV
 DKCNLLEGEPRFVENSECIQCHPECLPQAMNITCTGRGPDNCIQCAHYIDGPHCVK
 TCPAGVMGENNTLVWKYADAGHVCHLCHPNCTYGCTGPGLEGCPNGPKIPSHHH
 HHH

Endotoxin < 0.2 EU/μg, determined by LAL method.

Purity > 95% as analyzed by SDS-PAGE.

Storage Lyophilized recombinant human EGF Receptor, His remains stable up to 6 months at -80 centigrade from date of receipt. Upon reconstitution, human EGF Receptor, His should be stable up to 1 week at 4 centigrade or up to 2 months at -20 centigrade.

Storage Buffer Lyophilized after extensive dialysis against PBS.

Reconstitution Reconstituted in ddH₂O or PBS at 100 μg/mL.

GENE INFORMATION

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

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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

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