

Recombinant Human EGFR Protein

Cat. No. EGFR-P1001H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant soluble Human EGFR (621 amino acid) glycoprotein without tag was expressed in CHO cells.
Species	Human
Source	CHO
Conjugation/Label	Unconjugated
Description	<p>EGFR, epidermal growth factor receptor, is a receptor tyrosine kinases that signals in response to various growth factors. Overexpression has been linked to numerous types of cancer and EGFR is the target of both biological and small molecular therapeutics. EGFR is encoded by the EGFR gene located on chromosome 7 in humans. EGFR belongs to the HER/ERbB family of proteins that includes three other receptor tyrosine kinases, ERbB2, ERbB3, ERbB4. EGFR is a transmembrane receptor and binding of its cognate ligands such as EGF (Epidermal Growth Factor) and TGF alpha (Transforming Growth Factor alpha) to the extracellular domain leads to EGFR dimerization followed by autophosphorylation of the tyrosine residues in the cytoplasmic domain. Overexpression is observed in tumors of the head and neck, brain, bladder, stomach, breast, lung, endometrium, cervix, vulva, ovary, esophagus, stomach and in squamous cell carcinoma.</p>
Form	Lyophilized
Molecular Mass	68.6 kDa

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AASequence

LEEKKVCQGTSNKLTQLGTFEDHFLSLQRMFNNCEVVLGNLEITYVQRNYDLSFLKTI
 QEVAGYVLIALNTVERIPLLENLQIIRGNMYEENSALAVLSNYDANKTGLKELPMRNL
 QEILHGAVRFSNNPALCNVESIQWRDIVSSDFLSNMSMDFQNHGSCQKCDPSCPN
 GSCWGAGEENCQKLTKIICAQQCSGRRCRGKSPSDCCHNQCAAGCTGPRESCLV
 CRKFRDEATCKDTCPLMLYNPTTYQMDVNPEGKYSFGATCVKKCPRNYVVDHG
 SCVRACGADSYEMEEDGVRKCKKCEGPCRKVCNGIGIGEFKDSLSINATNIKHFKNC
 TSISGDLHILPVAFRGDSFTHTPPLDPQELDILKTVKEITGFLLIQAWPENRTDLHAFE
 NLEIIRGRTKQHGQFSLAVVSLNITSLGLRSLKEISDGDVVISGKNLCYANTINWKKLF
 GTSGQKTKIISNRGENSCKATGQVCHALCSPEGCWGPEPRDCVSCRNVSRGRECV
 DKCNLLEGEPRFVENSECIQCHPECLPQAMNITCTGRGPDNCIQCAHYIDGPHCVK
 TCPAGVMGENNTLVWKYADAGHVCHLCHPNCTYGCTGPGLEGCPNGPKIPS

Endotoxin <1 EU/μg

Purity ≥ 95% by SDS-PAGE gel and HPLC analyses

Applications Ctrl, In vitro, Western blot control (WB Ctrl)

Storage At -20 centigrade.

GENE INFORMATION

Gene Name EGFR epidermal growth factor receptor [Homo sapiens (human)]

Official Symbol EGFR

Synonyms EGFR; epidermal growth factor receptor; ERBB; ERRP; HER1; mENA; ERBB1; NNCIS; PIG61; NISBD2; epidermal growth factor receptor; EGFR vIII; avian erythroblastic leukemia viral (v-erb-b) oncogene homolog; cell growth inhibiting protein 40; cell proliferation-inducing protein 61; epidermal growth factor receptor tyrosine kinase domain; erb-b2 receptor tyrosine kinase 1; proto-oncogene c-ErbB-1;

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receptor tyrosine-protein kinase erbB-1; EC 2.7.10.1

Gene ID

1956

mRNA Refseq

NM_201284

Protein Refseq


NP_958441

MIM

131550

UniProt ID

P00533

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