

Active Recombinant Human EGFR, Fc-tagged, Biotinylated

Cat. No. EGFR-602H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human EGFR Protein extracellular domain (ECD, 25-638aa), was expressed in Human Cells with C-terminal human IgG1 Fc tag (exists as dimer under non-reducing condition; total 850 amino acids).
Species	Human
Source	Human Cells
ProteinLength	25-638 aa
Form	Supplied at 0.5 mg/ml in sterile PBS pH7.4 (carrier free). The purified recombinant protein was labeled with Biotin (3-5 Biotin per molecule).
Bio-activity	The recombinant Fc-fusion protein blocks anti-EGFR mAbs and therapeutic mAb such as Erbitux and Vectbix binding to EGFR ECD as measured by ELISA and to cell surface EGFR by flow cytometry or cell-based ELISA.
Molecular Mass	Calculated molecular mass (kDa): 94.4; Estimated by SDS-PAGE under reducing condition (kDa): ~100
AA Sequence	LEEKKVCQGTSNKLTQLGTFEDHFLSLQRMFNNCEVVLGNLEITYVQRNYDLSFLKTI QEVAGYVLIANTVERI PLENLQIIRGNMYYENSYALAVLSNYDANKTGLKELPMRNL QEILHGAVRFSNNPALCNVESIQWRDIVSSDFL SNMSMDFQNHLSGSCQKCDPSCP NGSCWGAGEENCQKLTKIICAQQCSGRRCRGKSPSDCCHNQCAAGCTGPRESCL VCRKFRDEATCKDTCPLMLYNPTTYQMDVNPEGKYSFGATCVKKCPRNYVVTDH

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GSCVRACGADSYEMEED GVRKCKKCEGPCRKVCNGIGIGEFKDSL SINATNIKHFK
 NCTSISGDLHILPVAFRGDSFHTPLDPQELDIL KTVKEITGFLLIQAWPENRTDLHA
 FENLEIIRGR TKQHGGQFSLAVVSLNITSLGLRSLKEISDGDVVISGNKNL CYANTINWK
 KLFGTSGQKTKIISNRGENSCKATGQVCHALCSPEGCWGPEPRDCVSCRNVSRGR
 ECVDKCNLLE GEPREFVENSECIQCHPECLPQAMNITCTGRGPDNCIQCAHYIDGP
 HCVKTCPAGVMGENNTLVWKYADAGHVC HLCHPNCTYGCTGPGLEGCPSTSTGDE
 PKSCDKTHTCPPCPAPPELLGGPSVFLFPPKPKDTLMISRTPEVTCV VV DVSHEDPE
 VKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKA
 LPAPIEKTISK AKGQPREPQVYTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESN
 GQPENNYKTTTPVLDS DGSFFLYSKLTV DKSRWQQGNV FSCSV MHEALHNHYTQK
 SLSLSPGK

Endotoxin <0.1 eu per 1 µg of purified recombinant protein determined by the

Purity >95% judged by SDS-PAGE under reducing condition

Storage The product is shipped at 4°C. Upon receipt, centrifuge the product briefly before opening the vial. It is recommended to store small aliquots at the temperature below -20°C for long-term storage and the product is stable for 3 months. The undiluted protein can be stored at 4°C for no more than 2 weeks. Avoid repeated freeze-thaw cycles.

Conjugation Biotin

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

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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](#)


**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 binding; protein heterodimerization activity; protein phosphatase binding; protein tyrosine kinase activity; protein tyrosine kinase activity; protein tyrosine kinase

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activity; receptor activity; receptor signaling protein tyrosine kinase activity; signal transducer activity; transmembrane receptor protein tyrosine kinase activity; transmembrane receptor protein tyrosine kinase activity; transmembrane signaling receptor activity;

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