

Active Recombinant Human EGFR, Fc-tagged, Biotinylated

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

SPECIFICATION

Product Overview	The recombinant human EGFR extracellular or ecto-domain (ECD) is expressed as a 850 amino acid protein consisting of Leu25-Thr638 region of EGFR and a C-terminal Fc fusion from human IgG1 which exists as a dimer under non-reducing condition.
Source	Human cells
Species	Human
Tag	Fc
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 Vectibx 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	LEEKKVCQGTSNKLTQLGTFEDHFL SLQRMFNNCEVVLGNLEITYVQRNY DLSFLKTIQEVAGYVLIALNTVERI PLENLQIIRGNMYYENSALAVLSN YDANKTGLKELPMRNLQEILHGAVR FSNNPALCNVESIQWRDIVSSDFL SNMSMDFQNLHGSCQKCDPSCPNGS CWGAGEENCQKLTKIICAQQCSGRC RGKSPSDCCHNQCAAGCTGPRESL CLVCRKFRDEATCKDTCPLMLYNP

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

TTYQMDVNPEGKYSFGATCVKKCPR NYVVTDHGSCVRACGADSYEMEED
 GVRKCKKCEGPCRKVCNGIGIGEFK DSLSINATNIKHFNCTSIISGLHI
 LPVAFRGDSFTHTPPLDPQELDIL KTVKEITGFLLIQAWPENRTDLHAF
 ENLEIIRGRTKQHGQFSLAVVSLNI TSLGLRSLKEISDGDVIISGNKNL
 CYANTINWKKLFGTSGQKTKIISNR GENSCKATGQVCHALCSPEGCWGPE
 PRDCVSCRNVSRGRECVDKCNLLE GEPREFVENSECIQCHPECLPQAMN
 ITCTGRGPDNCIQCAHYIDGPHCVK TCPAGVMGENNTLVWKYADAGHVC
 HLCHPNCTYGCTGPGLEGCPSTGD EPKSCDKTHTCPPCPAPELLGGPSV
 FLFPPKPKDTLMISRTPEVTCVVV DVSHEDPEVKFNWYVDGVEVHNAKT
 KPREEQYNSTYRVVSVLTVLHQDWL NGKEYKCKVSNKALPAPIEKTISK
 AKGQPREPQVYTLPPSREEMTKNQV SLTCLVKGFYPSDIAVEWESNGQPE
 NNYKTTTPVLDSGDSFFLYSKLTV DKSRWQQGNVSCSVMHEALHNNHYT QKSLSLSPGK

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.

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 activity;

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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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