

Active Recombinant Human EGFR Protein, Fc-tagged, FITC conjugated

Cat. No. EGFR-28395THF **Lot. No.** (See product label)

SPECIFICATION

Product Overview Recombinant Human EGFR Protein extracellular domain fragment (25-525aa), was expressed in modified human 293 cells with C-terminal human IgG1 Fc tag (90-330aa) and FITC conjugate (chimeric protein).

Species Human

Source HEK293

ProteinLength 25-525 aa

Description The protein encoded by this gene is a transmembrane glycoprotein that is a member of the protein kinase superfamily. This protein is a receptor for members of the epidermal growth factor family. EGFR is a cell surface protein that binds to epidermal growth factor. Binding of the protein to a ligand induces receptor dimerization and tyrosine autophosphorylation and leads to cell proliferation. Mutations in this gene are associated with lung cancer. Multiple alternatively spliced transcript variants that encode different protein isoforms have been found for this gene.

Form Lyophilized

Bio-activity The ED50 is typically 60-100 ng/mL as measured by its ability to neutralize EGF mediated proliferation of murine NIH3T3 fibroblasts.

N-terminal Sequence Theoretical sequence: LEEKKVCQGTSNKLTQLGTFEDHFLSLQR MFNNCEVVLGNL

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Analysis

EITYVQRNYDLSFLKTIQEVAGYVLI ALNTVERIPLLENLQIIRGNMYYENSYALAVLSN
 YDANK TGLKELPMRNLQEILHGAVRFSNNPALCNVESIQWRDIVSSDFLSNMSMDF
 QNHLGSCQKCDPSCPNGSCWGAGEENC QKLTKIICAQQCSGRRCRGKSPSDCCHN
 QCAAGCTGPRE SDCLVCRKFRDEATCKDTCPLMLYNPTTYQMDVNPEG KYSFG
 ATCVKKCPRNYVVTDHGSCVRACGADSYEMEED GVRKCKKCEGPCRKVCNGIGIG
 EFKDLSINATNIKHFKNCTSISGDLHILPVAFRGDSFTHTPPLDPQELDILKTVK EITG
 FLLIQAWPENRTDLHAFENLEIIRGRTKQHGGQFS LAVVSLNITSLGLRSLKEISDGDVII
 SGNKNLCYANTI NWKKLFGTSGQKTKIISNRGENSCKATGQVCHALCSPE GCWGP
 EPRDCVSRSSNTKVDKKVEPKSCDKTHTCPPCPAPPELLGGPSVFLFPPKPKDTLMIS
 RTPEVTCVVVDVSHED PEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTV L
 HQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREP QVYTLPPSRDELTKNQVSL
 TCLVKGFPYPSDIAVEWESN GQPENNYKTPPVLDSDGSFFLYSKLTVDKSRWQQG
 NVFSCSVMHEALHNHYTQKSLSLSPGK

Purity

> 95 % as determined by SDS-PAGE

Characteristic

Disulfide-linked homodimer
 Labeled with FITC via amines
 Excitation source: 488 nm spectral line, argon-ion laser
 Excitation Wavelength: 488 nm
 Emission Wavelength: 535 nm

Storage

Store at +4 centigrade.

Storage Buffer

10% Trehalose, 1% Human serum albumin

Reconstitution

It is recommended that 0.5 mL of sterile phosphate-buffered saline be added to the vial. Following reconstitution short-term storage at 4 centigrade is recommended, with longer-term storage in aliquots at -18 to -20 centigrade. Repeated freeze thawing is not recommended.

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Conjugation FITC

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);

Gene ID 1956

mRNA Refseq NM_005228

Protein Refseq NP_005219

MIM 131550

UniProt ID P00533

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