

## Active Recombinant Human EGFR Protein, Fc-tagged, Alexa Fluor 488 conjugated

**Cat. No.** EGFR-28395THAF488    **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 Alexa Fluor 488 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  
 TCLVKGFYPSDIAVEWESN GQPENNYKTPPVLDSDGSFFLYSKLTVDKSRWQQG  
 NVFSCSVMHEALHNHYTQKSLSLSPGK

**Purity**

> 95 % as determined by SDS-PAGE

**Characteristic**

Disulfide-linked homodimer  
 Labeled with Alexa Fluor 488 via amines  
 Excitation Wavelength: 488 nm  
 Emission Wavelength: 515-545 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** Alexa Fluor 488

## 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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