

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 ALNTVERIPLNLQIIRGNMYYENSYALAVLSN YDANK TGLKELPMRNLQEILHGAVRFSNNPALCNVESIQWRDIVSSDFLSNMSMDF QNHGSCQKCDPSCPNGSCWGAGEENC QKLTKIICAQQCSGRRCRGKSPSDCCHN QCAAGCTGPRE SDCLVCRKFRDEATCKDTCPLMLYNPTTYQMDVNPEG KYSFG ATCVKKCPRNYVVTDHGSCVRACGADSYEMEED GVRKCKKCEGPCRKVCNGIGIG EFKDSLSINATNIKHFKNCTSIGDLHILPVAFRGDSFTHTPPLDPQELDILKTVK EITG FLLIQAWPENRTDLHAFENLEIIRGRKQHGQFS LAVVSLNITSLGLRSLKEISDGDVII SGNKNLCYANTI NWKKLFGTSGQKTKIISNRGENSCKATGQVCHALCSPE GCWGP EPRDCVSRSSNTKVDKKVEPKSCDKTHTCPPCPAPELLGGPSVFLFPPKPKDTLMIS RTPEVTCVVVDVSHED PEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTV L HQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREP QVYTLPPSRDELTKNQVSL TCLVKGFYPSDIAVEWESN GQPENNYKTPPVLDSDGSFFLYSKLTVDKSRWQQG NVFSCSVMEALHNHYTQKSLSLSPGK
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.

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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