

Active Recombinant Human EGFR Protein, Fc-tagged, Alexa Fluor 647 conjugated

Cat. No. EGFR-28395THAF647 **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 647 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

 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

Analysis

EITYVQRNYDLSFLKTIQEVAGYVLI ALNTVERIPLLENLQIIRGNMYEENSALAVLSN
 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 647 via amines
 Excitation = 650 nm
 Emission = 668 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.

 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

Conjugation Alexa Fluor 647

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

 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