Recombinant Human EGFR, Fc-tagged

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

SPECIFICATION

Product Overview	Recombinant fragment, corresponding to extracellular domain amino acids 25-525 of Human EGFR fused to the Fc region of Human IgG1 (aa 90-330). The chimeric protein was expressed in modified human 293 cells.
Species	Human
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.
Conjugation	Fc
Tissue specificity	Ubiquitously expressed. Isoform 2 is also expressed in ovarian cancers.
Biological activity	The ED50 of EGFR-28395TH is typically 60-100 ng/ml as measured by its ability to neutralize EGF mediated proliferation of murine NIH3T3 fibroblasts.
Form	Lyophilised:It is recommended that 0.5 ml of sterile phosphate-buffered saline be added to the vial.Following reconstitution short-term storage at 4°C is recommended,

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	with longer-term storage in aliquots at -18 to -20°C. Repeated freeze thawing is not rec
Purity	>95% by SDS-PAGE
Storage buffer	Preservative: NoneConstituents: 10% Trehalose, 1% Human serum albumin
Storage	Store at +4°C.
Sequences of amino acids	Theoretical sequence:LEEKKVCQGTSNKLTQLGTFEDHFLSLQR MFNNCEVVLGNL EITYVQRNYDLSFLKTIQEVAGYVLI ALNTVERIPLENLQIIRGNMYYENSYALAVLSN YDANK TGLKELPMRNLQEILHGAVRFSNNPALCNVESIQWRDIVSSDFLSNMSMDF QNHLGSCQKCDPSCPNGSCWGAGEENC QKLTKIICAQQCSGRCRGKSPSDCCHN QCAAGCTGPRE SDCLVCRKFRDEATCKDTCPPLMLYNPTTYQMDVNPEG KYSFG ATCVKKCPRNYVVTDHGSCVRACGADSYEMEED GVRKCKKCEGPCRKVCNGIGIG EFKDSLSINATNIKHFKNCTSISGDLHILPVAFRGDSFTHTPPLDPQELDILKTVK EITG FLLIQAWPENRTDLHAFENLEIIRGRTKQHGQFS LAVVSLNITSLGLRSLKEISDGDVII SGNKNLCYANTI NWKKLFGTSGQKTKIISNRGENSCKATGQVCHALCSPE GCWGP EPRDCVSRSSNTKVDKKVEPKSCDKTHTCPPCPAPELLGGPSVFLFPPKPKDTLMIS RTPEVTCVVVDVSHED PEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTV L HQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREP QVYTLPPSRDELTKNQVSL TCLVKGFYPSDIAVEWESN GQPENNYKTTPPVLDSDGSFFLYSKLTVDKSRWQQG NVFSCSVMHEALHNHYTQKSLSLSPGK
Sequence Similarities	Belongs to the protein kinase superfamily. Tyr protein kinase family. EGF receptor subfamily.Contains 1 protein kinase domain.

GENE INFORMATION

Gene Name	EGFR epidermal growth factor receptor [Homo sapiens]

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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
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;
Function	ATP binding; MAP/ERK kinase kinase activity; actin filament binding; double-stranded DNA binding; enzyme binding;

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