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

Cat. No. EGFR-024HAF488 **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human EGFR Fc Chimera (rhEGFR-Fc) Protein (NP_005219, 1-642aa), was expressed in human 293 cells (HEK293) with Fc tag and Alexa Fluor 488 conjugate.
Species	Human
Source	HEK293
ProteinLength	1-642 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. [provided by RefSeq, Jun 2016]
Molecular Mass	rhEGFR-Fc is a homodimeric protein and is fused with the Fc region of human IgG1 at the C-terminus. The reduced monomer consists of 860 amino acids and has a calculated molecular mass of 95 kDa. In DTT-reduced SDS-PAGE, protein migrates as 130-140 kDa.
N-terminal Sequence Analysis	Leu 25

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Endotoxin	< 0.01 ng endotoxin/1 μg rhEGFR-Fc.
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 -20 centigrade in lyophilized state after receipt. For long term storage, upon reconstitution rhEGFR-Fc should be aliquot and store at -20 centigrade or -8 centigrade centigrade. Avoid repeated freeze-thaw cycles.
Storage Buffer	Bulk protein in a 0.22 μm filtered solution of PBS, pH 7.4 and delivered as liquid formulation or lyophilized powder. Normally 5-8% trehalose and mannitol are added as protectants before lyophilization.
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); proto-oncogene c-ErbB-1; cell growth inhibiting protein 40; cell proliferation-inducing protein 61; receptor tyrosine-protein kinase erbB-1; avian erythroblastic leukemia viral (v-erb-b) oncogene homolog; ERBB; HER1; mENA; PIG61;

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Gene ID	1956
mRNA Refseq	NM_005228
Protein Refseq	NP_005219
MIM	131550
UniProt ID	P00533

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