

Recombinant Human EGFR

Cat. No. EGFR-28392TH Lot. No. (See product label)

SPECIFICATION

Product Overview	SolubleEGFR human recombinant fragment, produced in baculovirus/Sf9 insect cells, is a monomeric, glycosylated, polypeptide chain and has a molecular mass of 80 kDa.
Species	Human
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.
Tissue specificity	Ubiquitously expressed. Isoform 2 is also expressed in ovarian cancers.
Form	Lyophilised:Reconstitute the lyophilized EGFR in sterile PBS not less than 100µg/ml, which can then be further diluted to other aqueous solutions.
Purity	>90% by SDS-PAGE
Storage buffer	Preservative: NoneConstituents: PBS, pH 7.4
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.

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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]

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;

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Function

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

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