

Active Recombinant Human EGFR(T790M C797S L858R) protein, GST-tagged

Cat. No. EGFR-02H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human EGFR Protein (T790M/C797S/L858R mutation, 668-end aa), was expressed in Sf9 insect cells (via baculovirus) with N-terminal GST tag.
Species	Human
Source	Insect Cells
ProteinLength	668-end a.a.
Description	EGFR is the receptor for members of the EGF family and is a transmembrane glycoprotein that has tyrosine kinase activity. Binding of epidermal growth factor to EGFR induces receptor dimerization and tyrosine autophosphorylation and leads to cell proliferation, differentiation, motility, and cell survival (1). Activation of EGFR triggers mitogenic signaling in gastrointestinal mucosa, and its expression is upregulated in colon cancers and most neoplasms (2). Activation of EGFR triggers activation of the ERK-signaling pathway in normal gastric epithelial and colon cancer cell lines. Inactivation of EGFR with selective inhibitors significantly reduces ERK2 activation, c-fos mRNA expression and cell proliferation.
Form	Recombinant protein stored in 50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, and 25% glycerol.
Bio-activity	The specific activity of EGFR (T790M C797S L858R) was

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

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	determined to be equivalent to 35 nmol/min/mg as per activity assay protocol.
Molecular Mass	89~100kDa
Purity	>80%
Stability	1yr at -70oC from date of shipment
Storage	Store product at -70oC. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.
Concentration	0.1 µg/µl

GENE INFORMATION

Gene Name	EGFR epidermal growth factor receptor [Homo sapiens (human)]
Official Symbol	EGFR
Synonyms	EGFR; epidermal growth factor receptor; ERBB; ERRP; HER1; mENA; ERBB1; PIG61; NISBD2; epidermal growth factor receptor; avian erythroblastic leukemia viral (v-erb-b) oncogene homolog; cell growth inhibiting protein 40; cell proliferation-inducing protein 61; epidermal growth factor receptor tyrosine kinase domain; erb-b2 receptor tyrosine kinase 1; proto-oncogene c-ErbB-1; receptor tyrosine-protein kinase erbB-1; EC 2.7.10.1
Gene ID	1956

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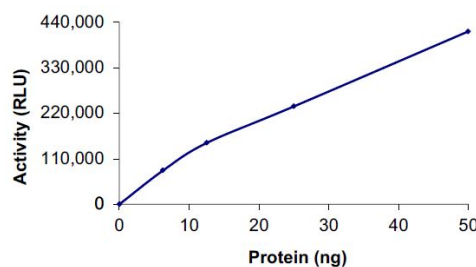
mRNA Refseq [NM_201283](#)

Protein Refseq [NP_005219](#)

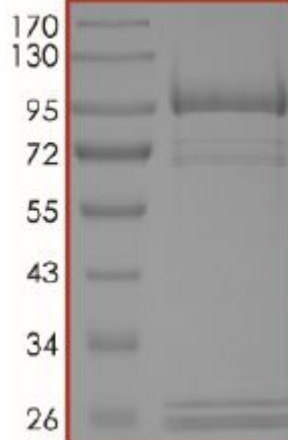
MIM [131550](#)

UniProt ID [P00533](#)

Specific Activity



SDS-PAGE Results of Human Collagen Type IV. Lane 1: Human Collagen Type IV Reduced (5.0g). Lane 2: Opal Prestained Molecular Weight Protein (p/n MB-210-0500). Lane 3: Human Collagen Type IV Non-Reduced (5.0g). 4-20% Gel, Coomassie Stained. Observed MW: Type IV α 1, α 2,



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