

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

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

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human EGFR Protein (T790M/C797S/L858R mutation, 668-end aa), was expressed in Sf9 insect cells (via baculovirus) with N-terminal GST tag.
<b>Species</b>	Human
<b>Source</b>	Insect Cells
<b>ProteinLength</b>	668-end a.a.
<b>Description</b>	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.
<b>Form</b>	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.
<b>Bio-activity</b>	The specific activity of EGFR (T790M C797S L858R) was

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

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

	determined to be equivalent to 35 nmol/min/mg as per activity assay protocol.
<b>Molecular Mass</b>	89~100kDa
<b>Purity</b>	>80%
<b>Stability</b>	1yr at -70oC from date of shipment
<b>Storage</b>	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.
<b>Concentration</b>	0.1 µg/µl
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	EGFR epidermal growth factor receptor [ Homo sapiens (human) ]
<b>Official Symbol</b>	EGFR
<b>Synonyms</b>	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
<b>Gene ID</b>	1956

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mRNA Refseq [NM\\_201283](#)

Protein Refseq [NP\\_005219](#)

MIM [131550](#)

UniProt ID [P00533](#)

**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-

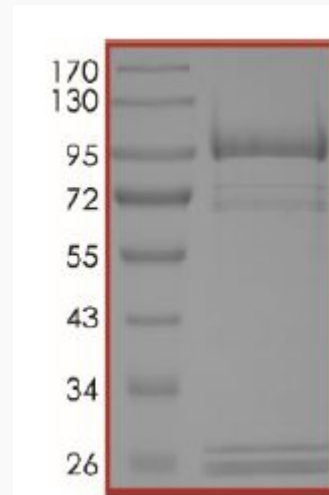
Reduced (5.0g). 4-


20% Gel, Coomassie

Stained. Observed


MW: Type IV  $\alpha$ 1,  $\alpha$ 2,

$\alpha$ 4 bands.



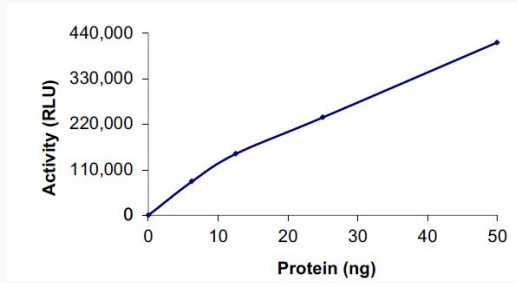
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### Specific Activity



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