

Recombinant Human EGFR Protein, GST-tagged

Cat. No. EGFR-03H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human EGFR Protein (T790M/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	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, thus inducing receptor dimerization and tyrosine autophosphorylation leading to cell proliferation. Mutations in this gene are associated with lung cancer. EGFR is a component of the cytokine storm which contributes to a severe form of Coronavirus Disease 2019 (COVID-19) resulting from infection with severe acute respiratory syndrome coronavirus-2 (SARS-CoV-2).
Molecular Mass	89~100 kDa
Purity	> 70%
Stability	One year at -70 centigrade from date of shipment.
Storage	Store product at -70 centigrade. For optimal storage, aliquot target into smaller

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

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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

Storage Buffer 50 mM Tris-HCl, pH 7.5, 150 mM NaCl, 10 mM glutathione, 0.1 mM EDTA, 0.25 mM DTT, 0.1 mM PMSF, 25% glycerol.

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

mRNA Refseq NM_005228

Protein Refseq NP_005219

MIM 131550

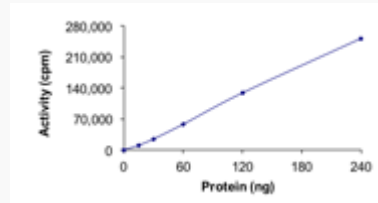
UniProt ID P00533

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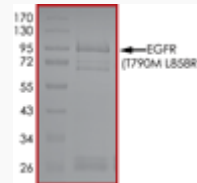
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Specific Activity



The specific activity of EGFR (T790M L858R) was determined to be 9.2 nmol/min/mg as per activity assay protocol, and was equivalent to 30 nmol/min/mg as per radiometric assay.

Purity



The purity of EGFR (T790M L858R) was determined to be >80% by densitometry.

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