Recombinant Active Human EGFR (L718Q L858R) Mutant Protein, GST-tagged

Cat. No. EGFR-23H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human EGFR Protein (L718Q/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	Approx 89~100 kDa
Purity	> 80%
Stability	One year at -70 centigrade from data of shipment.

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Storage	Store product at –70 centigrade. 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	0.05 μg/μL
Storage Buffer	Recombinant protein stored in 50 mM Tris-HCl, pH 7.5, 150 mM NaCl, 10 mM glutathione, 0.1 mM EDTA, 0.25 mM DTT, 25% glycerol.
Shipping	Dry ice

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; EGFR vIII; 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

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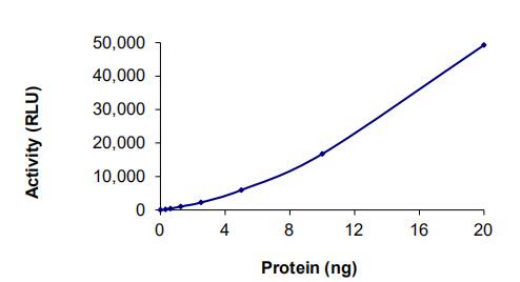
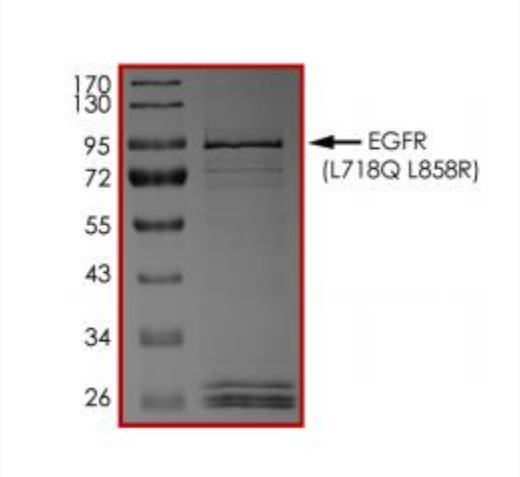
UniProt ID	P00533
Specific Activity	 The specific activity of EGFR (L718Q L858R) was determined to be 3.8 nmol/min/mg as per activity assay protocol.
Purity	 The purity of EGFR (L718Q L858R) was determined to be >80 % by densitometry.

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