

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

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

## SPECIFICATION

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

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|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Storage</b>          | 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.                                                                                                                                                                                                        |
| <b>Concentration</b>    | 0.05 µg/µL                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Storage Buffer</b>   | 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.                                                                                                                                                                                                                                                                                                                           |
| <b>Shipping</b>         | Dry ice                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <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; 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 |
| <b>Gene ID</b>          | 1956                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>mRNA Refseq</b>      | NM_005228                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Protein Refseq</b>   | NP_005219                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>MIM</b>              | 131550                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

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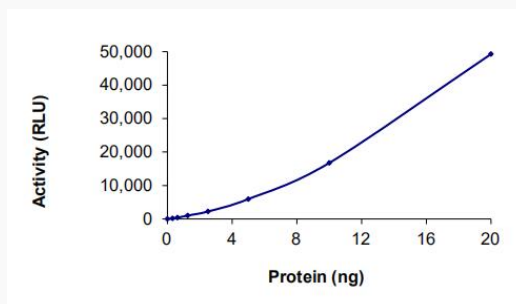
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UniProt ID

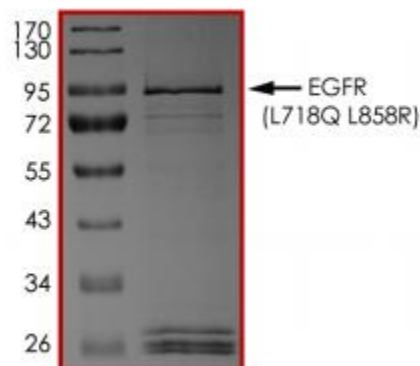
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Specific Activity



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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