

## Active Recombinant Human EGFR protein, GST-tagged

Cat. No. EGFR-389H    Lot. No. (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Human EGFR Protein (668-end aa, d746-750 deletion/T790M mutation), 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. Activation of EGFR triggers mitogenic signaling in gastrointestinal mucosa, and its expression is upregulated in colon cancers and most neoplasms. 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, 300mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Bio-activity</b>     | 54 nmol/min/mg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

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|                         |                                                                                                                                                                                                                                                  |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Molecular Mass</b>   | 95~105 kDa                                                                                                                                                                                                                                       |
| <b>Purity</b>           | >70%                                                                                                                                                                                                                                             |
| <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>GENE INFORMATION</b> |                                                                                                                                                                                                                                                  |
| <b>Gene Name</b>        | EGFR                                                                                                                                                                                                                                             |
| <b>Official Symbol</b>  | EGFR                                                                                                                                                                                                                                             |
| <b>Synonyms</b>         | ERBB; HER1; mENA; ERBB1; PIG61; NISBD2                                                                                                                                                                                                           |
| <b>Gene ID</b>          | 1956                                                                                                                                                                                                                                             |
| <b>mRNA Refseq</b>      | NM_005228.5                                                                                                                                                                                                                                      |
| <b>Protein Refseq</b>   | NP_005219.2                                                                                                                                                                                                                                      |
| <b>MIM</b>              | 131550                                                                                                                                                                                                                                           |
| <b>UniProt ID</b>       | P00533                                                                                                                                                                                                                                           |

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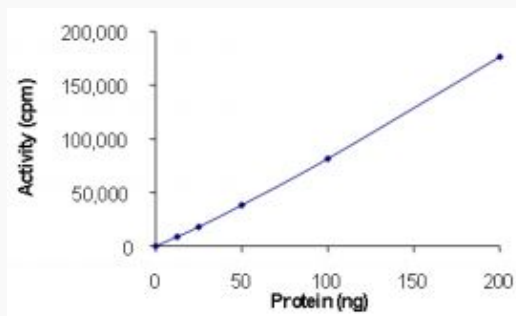
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## SDS-PAGE



The purity of EGFR(d746-750 T790M) was determined to be >70% by densitometry, approx. MW 95~105 kDa.

## Specific Activity



The specific activity of EGFR (d746-750 T790M) was determined to be 54 nmol/min/mg.

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