

## Recombinant Human EGFR, GST-tagged, Active

Cat. No. EGFR-297H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human EGFR Protein (695-end aa), was expressed in Sf9 insect cells (via baculovirus) with N-terminal GST tag (molecular weight: 89 kDa).
<b>Species</b>	Human
<b>Source</b>	Sf9 Cells
<b>ProteinLength</b>	695-end a.a.
<b>Description</b>	<p>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.</p>
<b>Sequence</b>	695-end.
<b>Applications</b>	Kinase Assay, Western Blot.
<b>Storage And Stability</b>	Store product at $-70^{\circ}\text{C}$ . For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable

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performance, avoid repeated handling and multiple freeze/thaw cycles.

## GENE INFORMATION

**Gene Name**

EGFR epidermal growth factor receptor (erythroblastic leukemia viral (v-erb-b) oncogene homolog, avian) [ Homo sapiens ]

**Synonyms**

EGFR; epidermal growth factor receptor (erythroblastic leukemia viral (v-erb-b) oncogene homolog, avian); ERBB; HER1; mENA; ERBB1; PIG61; avian erythroblastic leukemia viral (v-erb-b) oncogene homolog; cell growth inhibiting protein 40; cell proliferation-inducing protein 61; epidermal growth factor receptor

**Gene ID**

1956

**mRNA Refseq**

NM\_005228.3

**Protein Refseq**

NP\_005219.2

**MIM**

131550

**UniProt ID**

P00533

**Chromosome Location**

7p12

**Pathway**

Adherens junction; Calcium signaling pathway; Colorectal cancer; Cytokine-cytokine receptor interaction; Dorso-ventral axis formation; Endometrial cancer; Epithelial cell signaling in Helicobacter pylori infection; ErbB signaling pathway; Focal adhesion; Gap junction; Glioma; GnRH signaling pathway; MAPK signaling pathway; Melanoma; Non-small cell lung cancer; Pancreatic cancer; Prostate cancer; Regulation of actin cytoskeleton

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**Function**

ATP binding; actin filament binding; double-stranded DNA binding; epidermal growth factor receptor activity; identical protein binding

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