

Recombinant Human EGFR, GST-tagged, Active

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

SPECIFICATION

Product Overview	Recombinant Human EGFR Protein (695-end aa), was expressed in Sf9 insect cells (via baculovirus) with N-terminal GST tag (molecular weight: 89 kDa).
Species	Human
Source	Sf9 Cells
ProteinLength	695-end a.a.
Description	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.
Sequence	695-end.
Applications	Kinase Assay, Western Blot.
Storage And Stability	Store product at -70°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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