# EGFR (D770_N771insGF) Recombinant Protein | EGFR recombinant protein

EGFR (D770_N771insGF) Protein

| CATALOG # | HOST | APPLICATIONS |
|---|---|---|
| **AAA73501** | **Sf9 insect cells** | **Kinase Assay** |

## PRODUCT SYNONYMS

EGFR (D770_N771insGF); EGFR (D770_N771insGF) Protein; ERBB; mENA; ERBB1; HER1; EGFR recombinant protein

## PRODUCT SPECIFICATIONS

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| **Host** | Sf9 insect cells |
| **Form/Format** | Recombinant protein stored in 50mM Tris-HCl, pH7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol. |
| **Applicable Applications for EGFR recombinant protein** | Kinase Assay |
| **Tag** | GST |
| **Species** | Human |
| **Dry Ice Note** | The product may be shipped with dry ice, and an additional fee may be added to your shipping cost. |
| **Preparation and Storage** | Store product at -70 degree C. 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. |

## IMAGES

**SDS-PAGE**
Purity: Sample Purity Data. For specific information on a given lot, see related technical data sheet.

**Activity**
Specific Activity: Sample Kinase Activity Plot. For specific information on a given lot, see related technical data sheet.

## ADDITIONAL INFORMATION

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| **Related Product Information for EGFR recombinant protein** | Recombinant human EGFR (D770_N771insGF)(695-end) was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag. The gene accession number is NM_005228.<br>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 (1). Activation of EGFR triggers mitogenic signaling in gastrointestinal mucosa, and its expression is upregulated in colon cancers and most neoplasms (2). 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. |
| **Product Categories/Family for EGFR recombinant protein** | Mutant Kinases; AKT/PKB Pathway; Angiogenesis; Apoptosis/Autophagy; Cancer; Cardiovascular Disease; Cell Cycle; ERK/MAPK Pathway; Inflammation; Invasion/Metastasis; Metabolic Disorder; PKA/PKC Pathway; Receptor Tyrosine Kinases |

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| **References** | 1. Wang K, et al: Epidermal growth factor receptor-deficient mice have delayed primary endochondral ossification because of defective osteoclast recruitment. J. Biol. Chem. 279: 53848-53856, 2004.<br>2. Kobayashi S, et al: EGFR mutation and resistance of non-small-cell lung cancer to gefitinib. New Eng. J. Med. 352: 786-792, 2005. |

## NCBI AND UNIPROT INFORMATION

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| **NCBI GenBank Nucleotide #** | NM_005228 |
| **Molecular Weight** | ~87kDa |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: https://stage.aaabiotech.com/egfr-d770-n771insgf-recombinant-protein-sf9-insect-cells-kinase-assay/73501