

EGFR recombinant protein

Recombinant EGFR protein (672-1210, L858R) protein

CATALOG # AAA60175	HOST Baculovirus
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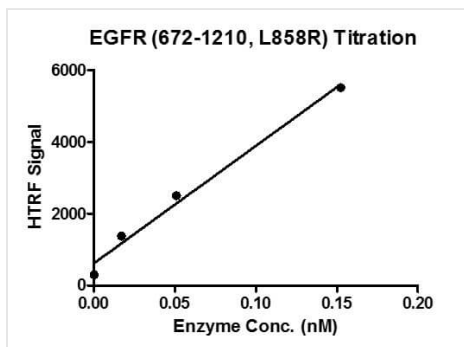
PRODUCT SYNONYMS

EGFR; Recombinant EGFR protein (672-1210; L858R) protein; ERBB; HER1; mENA; ERBB1; PIG61; NISBD2; EGFR recombinant protein

PRODUCT SPECIFICATIONS

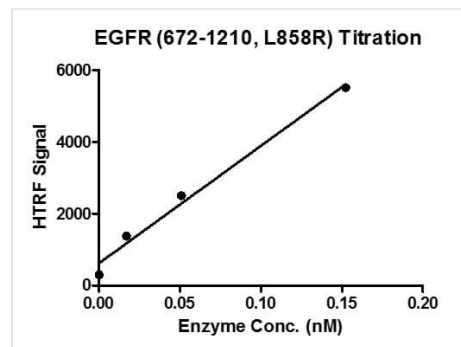
Host	Baculovirus
Form/Format	Recombinant EGFR (672-1210, L858R) protein is supplied in 25mM HEPES-NaOH pH7.5, 300mM NaCl, 10% glycerol, 0.04% Triton X-100, and 0.5mM TCEP.
Protein Species	Human
Tag	DYKDDDDK-Tag
Notes	Recombinant human EGFR (672-1210, L858R) protein is suitable for use in enzyme kinetics, inhibitor screening, and selectivity profiling.
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	Recombinant proteins in solution are temperature sensitive and must be stored at -80 degree C to prevent degradation. Avoid repeated freeze/thaw cycles and keep on ice when not in storage. Shipping Temp: Dry Ice

IMAGES



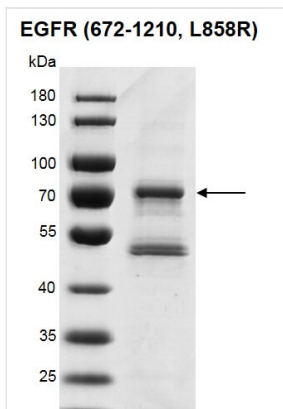
Application Data

HTRF assay for EGFR (672-1210, L858R) protein activity 1 micro;M TK substrate was incubated with different concentrations of EGFR (672-1210, L858R) protein in a 10 ul reaction system containing 1xEnzymatic Buffer, 5 mM MgCl₂, 1 mM DTT, 5 nM SEB and 100 uM ATP for 1 hour. Then 10 ul detection reagents containing TK antibody and SA-XL665 (each of which was 1:100 diluted with 1x Detection Buffer) were added and incubated with the reactions for 30 min. All the operations and reactions were performed at room temperature. HTRF KinEASE TK assay was used to detect the enzymatic activity.



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SDS-PAGE

Recombinant EGFR (672-1210, L858R) protein 10% SDS-PAGE Coomassie staining MW: 63.1 kDa Purity: >52%

ADDITIONAL INFORMATION

Related Product Information for EGFR recombinant protein

Short Description: Recombinant human EGFR (672-1210, L858R) protein includes amino acids 672-1210 of human EGFR protein (accession number NP_005219.2) with a point mutation Leu858Arg; it was expressed in a baculovirus expression system with an N-terminal DYKDDDDK-Tag. The molecular weight of this protein is 63.1 kDa. Recombinant human EGFR (672-1210, L858R) protein is suitable for use in the study of enzyme kinetics, inhibitor screening, and selectivity profiling.

Background: EGFR (Epidermal Growth Factor Receptor), also known as ERBB, mENA, ERBB1 and HER1, is the receptor for members of the EGF family and is a transmembrane glycoprotein that has tyrosine kinase activity. Receptor tyrosine kinase binding ligands of the EGF family and activating several signaling cascades to convert extracellular cues into appropriate cellular responses. Known ligands include EGF, TGFA/TGF- α , AREG, epigen/EPGN, BTC/betacellulin, epiregulin/EREG and HBEGF/heparin-binding EGF. Ligand binding triggers receptor homoand/or heterodimerization and autophosphorylation on key cytoplasmic residues. The phosphorylated receptor recruits adapter proteins like GRB2 which in turn activates complex downstream signaling cascades, including at least 4 major downstream signaling cascades: the RAS-RAF-MEK-ERK, PI3 kinase-AKT, PLCgamma-PKC and STATs modules, leading to cell proliferation. EGFR is widely recognized for its importance in cancer. Amplification and mutations of this gene have been shown to be driving events in many cancer types. Its role in non-small cell lung cancer, glioblastoma and basal-like breast cancers has spurred many research and drug development efforts. In particular, EGFR mutation analysis of NSCLC (non-small cell lung cancer) is now routine in standard clinical practice, and tyrosine kinase inhibitors (TKIs) targeting EGFR-activating mutations are the most widely used targeted therapy, most notably gefitinib and erlotinib. Patients carrying a point mutation in exon 21 (L858R) or a deletion in exon 19, which account for approximately 90% of EGFR-activating mutations, have significant survival benefit when treated with EGFR-TKI.

Product Categories/Family for EGFR recombinant protein

[Recombinant Proteins](#); [Kinase](#)

NCBI AND UNIPROT INFORMATION

NCBI GI #	29725609
NCBI GeneID	1956
NCBI Accession #	NP_005219.2
NCBI GenBank Nucleotide #	NM_005228.3
UniProt Accession #	P00533 ; O00688 ; O00732 ; P06268 ; Q14225 ; Q68GS5 ; Q92795 ; Q9BZS2 ; Q9GZX1 ; Q9H2C9 ; Q9H3C9 ; Q9UMD7
Molecular Weight	134,277 Da
NCBI Official Full Name	epidermal growth factor receptor isoform a
NCBI Official Synonym Full Names	epidermal growth factor receptor

NCBI Official Symbol	EGFR
NCBI Official Synonym Symbols	ERBB; HER1; mENA; ERBB1; PIG61
NCBI Protein Information	epidermal growth factor receptor; proto-oncogene c-ErbB-1; cell growth inhibiting protein 40; cell proliferation-inducing protein 61; receptor tyrosine-protein kinase erbB-1; avian erythroblastic leukemia viral (v-erb-b) oncogene homolog
UniProt Protein Name	Epidermal growth factor receptor
UniProt Gene Name	EGFR
UniProt Synonym Gene Names	ERBB; ERBB1; HER1
UniProt Entry Name	EGFR_HUMAN

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-recombinant-protein-baculovirus/60175>