

Epidermal Growth Factor Receptor-Sf9 Active Protein | EGFR active protein

Recombinant Human Epidermal Growth Factor Receptor-Sf9 (ErbB1), Active

CATALOG # AAA38416	HOST Baculovirus infected Sf9 cells
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PRODUCT SYNONYMS

Epidermal Growth Factor Receptor-Sf9; Recombinant Human Epidermal Growth Factor Receptor-Sf9 (ErbB1); Active; EGFR Human Sf9; Epidermal Growth Factor Receptor Human Recombinant Sf9; Epidermal growth factor receptor; EC 2.7.10.1; Receptor tyrosine-protein kinase ErbB-1; ERBB; mENA; ERBB1; EGFR; EGFR Sf9; EGFR active protein

PRODUCT SPECIFICATIONS

Host	Baculovirus infected Sf9 cells
Form/Format	EGFR in 50mM HEPES pH 7.5, 100mM NaCl, 5mM DTT, 15mM reduced glutathione and 20% glycerol. Sterile filtered liquid.
Concentration	1ug/5ul (varies by lot)
Sequence Length	1210
Specific Activity	30 pmol/ ugxmin.
Activity	Determination of Km value by Filter binding assay MAFC membrane.
Preparation and Storage	Store vial at -20 degree C to -80 degree C. When stored at the recommended temperature, this protein is stable for 12 months. Please avoid freeze-thaw cycles.

ADDITIONAL INFORMATION

Related Product Information for EGFR active protein	Description: EGFR Human Recombinant encoding a.a. 672-1210 expressed in Baculovirus infected Sf9 cells, fused with a GST-tag at N-terminus with thrombin cleavage sites, having a molecular weight of 89,171 Dalton. EGFR is purified by proprietary chromatographic techniques. Introduction: The epidermal growth factor receptor (EGF R) subfamily of receptor tyrosine kinases comprises four members: EGF R (also known as HER1, ErbB1 or ErbB), ErbB2 (Neu, HER-2), ErbB3 (HER-3), and ErbB4 (HER-4). All family members are type I transmembrane glycoprotein that has an extracellular domain which contains two cysteine-rich domains separated by a spacer region that is involved in ligand-binding, and a cytoplasmic domain which has a membrane-proximal tyrosine kinase domain and a C-terminal tail with multiple tyrosine autophosphorylation sites. The human EGF R gene encodes a 1210 amino acid (aa) residue precursor with a 24 aa putative signal peptide, a 621 aa extracellular domain, a 23 aa transmembrane domain, and a 542 aa cytoplasmic domain. EGF R has been shown to bind a subset of the EGF family ligands, including EGF, amphiregulin, TGF-β, betacellulin, epiregulin, heparin-binding EGF and neuregulin-2 in the absence of a co-receptor. Ligand binding induces EGF R homodimerization as well as heterodimerization with ErbB2, resulting in kinase activation, tyrosine phosphorylation and cell signaling. EGF R can also be recruited to form heterodimers with the ligand-activated ErbB3 or ErbB4. EGF R signaling has been shown to regulate multiple biological functions including cell proliferation, differentiation, motility and apoptosis. In addition, EGF R signaling has also been shown to play a role in carcinogenesis.
Product Categories/Family for EGFR active protein	Protein Kinases; Enzymes; EGF Receptor

NCBI AND UNIPROT INFORMATION

NCBI GI #	29725609
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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	69,228 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; NISBD2
NCBI Protein Information	epidermal growth factor receptor; avian erythroblastic leukemia viral (v-erb-b) oncogene homolog; cell growth inhibiting protein 40; cell proliferation-inducing protein 61; erb-b2 receptor tyrosine kinase 1; proto-oncogene c-ErbB-1; receptor tyrosine-protein kinase erbB-1
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/baculovirus-infected-sf9-cells-egfr-active-protein/epidermal-growth-factor-receptor-sf9/38416>