

Recombinant Human EGFR Protein, His\Avi-tagged

Cat. No. EGFR-179H Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant Human Epidermal Growth Factor Receptor (ErbB1) Protein extracellular domain (25-378aa), was expressed in Mammalian system with C-terminal 6His tag, Avi tag and biotinylated conjugate.

Species Human

Source Human Cells

ProteinLength 25-378 aa

Description The EGFR subfamily of receptor tyrosine kinases is composed of EGFR, ErbB2, ErbB3 and ErbB4. The EGFR shares 43% - 44% aa sequence identity with the ECD of human EGFR subfamily. All these family members are type I transmembrane glycoproteins with an extracellular ligand binding domain. The extracellular ligand binding domain is containing two cysteine-rich domains separated by a spacer region and a cytoplasmic domain containing a membrane-proximal tyrosine kinase domain. Ligand binding could induce EGFR homodimerization and heterodimerization with ErbB2, resulting in cell signaling, heterodimerization tyrosine phosphorylation and kinase activation. It can bind EGF, amphiregulin, TGF-alpha, betacellulin, epiregulin, HB-EGF, epigen, and so on. Its signaling regulates multiple biological functions including cell proliferation, differentiation, motility, and apoptosis. EGFR can also be recruited to form heterodimers with the ligand-activated ErbB3 or ErbB4. EGFR is overexpressed in different tumors. Several anti-cancer drugs use EGFR as target.

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Form	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.
AA Sequence	Leu25-Ser378
Endotoxin	Less than 0.1 ng/ug (1 EU/ug).
Shipping	Ambient

GENE INFORMATION

Gene Name	EGFR epidermal growth factor receptor [Homo sapiens (human)]
Official Symbol	EGFR
Synonyms	Epidermal growth factor receptor; Proto-oncogene c-ErbB-1; Receptortyrosine-protein kinase erbB-1; ERBB; ERRP; HER1; mENA; ERBB1; PIG61; NISBD2
Gene ID	1956
mRNA Refseq	NM_001346941.2
Protein Refseq	NP_001333870.1
MIM	131550
UniProt ID	P00533

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