

Active Recombinant Human EGFR, His&Avi-tagged, Biotinylated

Cat. No. EGFR-285H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human EGFR Protein (25-645aa), was expressed in human 293 cells (HEK293) with C-terminal His tag, Avi tag and biotinylated conjugate.
Species	Human
Source	HEK293
Predicted N Terminal	Leu 25
Form	Lyophilized from 0.22 µm filtered solution in PBS, pH7.4. Normally Mannitol or Trehalose are added as protectants before lyophilization.
Bio-activity	Measured by its binding ability in a functional ELISA. Immobilized CetuxiMab at 2 µg/mL (100 µL/well) can bind Biotinylated rh EGFR, Avi Tagged with a linear range of 0.002-0.2 µg/mL.
Molecular Mass	Have a calculated MW of 71.2 kDa. The predicted N-terminus is Leu 25. DTT-reduced Protein migrates as 110-115 kDa in SDS-PAGE due to glycosylation.
Endotoxin	Less than 1.0 EU per µg of the Biotinylated rh EGFR /ErbB1, His.Avi Tag by the LAL method.
Purity	>95% as determined by SDS-PAGE.

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Applications	By co-expression with biotin ligase (BirA enzyme), Biotinylated Human EGFR /ErbB1, His.Avi Tag was biotinylated in vivo for detection in ELISA, dot blot or western blot using streptavidin or avidin-conjugated probes.
Storage	Avoid repeated freeze-thaw cycles. No activity loss was observed after storage at: In lyophilized state for 1 year (4°C); After reconstitution under sterile conditions for 3 months (-70°C).
Conjugation	Biotin

GENE INFORMATION

Gene Name	EGFR epidermal growth factor receptor [Homo sapiens]
Official Symbol	EGFR
Synonyms	ERBB; HER1; mENA; ERBB1; PIG61; NISBD2; 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
Gene ID	1956
mRNA Refseq	NM_005228
Protein Refseq	NP_005219
MIM	131550
UniProt ID	P00533

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Chromosome Location	7p12
Pathway	AGE/RAGE pathway, organism-specific biosystem; Adherens junction, organism-specific biosystem; Arf6 signaling events, organism-specific biosystem
Function	ATP binding; MAP kinase kinase kinase activity; chromatin binding

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