

Recombinant Human EGFR (C-6His)

Catalog #	ЕРТ097
Expression Host	Human Cells
DESCRIPTION	Recombinant Human Epidermal Growth Factor
	Receptor is produced by our Mammalian expression
	system and the target gene encoding Leu25-Ser645 is
	expressed with a 6His tag at the C-terminus.
Accession	P00533
Synonyms	Epidermal growth factor receptor; Proto-oncogene
	c-ErbB-1; Receptor tyrosine-protein kinase erbB-1;
	EGFR;ERBB; ERBB1; HER1
Mol Mass	69.6 KDa
AP Mol Mass	90-120 KDa, reducing conditions
Purity	Greater than 95% as determined by reducing
	SDS-PAGE.
Endotoxin	Less than 0.1 ng/ μ g (1 EU/ μ g) as determined by LAL
	test.
FORMULATION	Lyophilized from a 0.2 μm filtered solution of PBS, pH
	7.4.



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RECONSTITUTION Always centrifuge tubes before opening.Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100µg/ml. Dissolve the lyophilized protein in distilled water. Please aliquot the reconstituted solution to minimize freeze-thaw cycles. SHIPPING The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature listed below. Lyophilized protein should be stored at < -20 ° C, STORAGE though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20° C for 3 months. BACKGROUND 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



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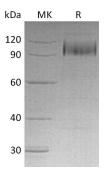
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ligand binding domain is containing two cysteine-rich domains separated by a spacer region and a cytoplasmic domain containing a membrane-proximal tyrosine kinase domain. Ligand binding could induce EGFR homodimerization and heterodimerization with 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 ligand-activated ErbB3 or ErbB4. EGFR is the overexpressed in different tumors. Several anti-cancer drugs use EGFR as target.



SDS-PAGE



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