

## Product datasheet for **TP727373**

### EGFR Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant Human Epidermal Growth Factor (V30G, Del31-297)/ErbB1/HER1 (C-6His)
Species:	Human
Expression cDNA Clone or AA Sequence:	Leu25-Val30Gly&Asn298-Ser645
Tag:	C-His
Buffer:	Lyophilized from a 0.2 um filtered solution of PBS, pH 7.4.
Note:	Recombinant Human Epidermal Growth Factor Receptor/Receptor Tyrosine Protein Kinase ErbB1 is produced by our Mammalian expression system and the target gene encoding Leu25-Ser378 is expressed with a 6His tag at the C-terminus.
Stability:	12 months from date of despatch
RefSeq:	<a href="#">NP_001333870</a>
Locus ID:	1956
UniProt ID:	<a href="#">P00533</a>
Summary:	<p>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.</p>



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