

## Recombinant Human EGFR Protein, His\Avi-tagged

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

### SPECIFICATION

|                         |                                                                                                                                                                                                     |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | 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. |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                |       |
|----------------|-------|
| <b>Species</b> | Human |
|----------------|-------|

|               |             |
|---------------|-------------|
| <b>Source</b> | Human Cells |
|---------------|-------------|

|                      |           |
|----------------------|-----------|
| <b>ProteinLength</b> | 25-378 aa |
|----------------------|-----------|

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

## GENE INFORMATION

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

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