ELK Biotechnology

# Recombinant Human EGFR (C-Fc)

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| **Catalog #** | EPT180 |
| **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 Fc 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** | 95.7 KDa |
| **AP Mol Mass** | 120-160 KDa, reducing conditions |
| **Purity** | Greater than 95% as determined by reducing SDS-PAGE. |
| **Endotoxin** | Less than 0.1 ng/μg (1 EU/μg) 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.

**STORAGE**

Lyophilized protein should be stored at < -20 ° C, 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**

EGFR is a transmembrane glycoprotein that is a member of the protein kinase superfamily. This protein is a receptor for members of the epidermal growth factor family. EGFR is a cell surface protein that binds to epidermal growth factor. Binding of the protein to a ligand induces receptor dimerization and

tyrosine autophosphorylation and leads to cell proliferation. Activates at least 4 major downstream signaling cascades including the RAS-RAF-MEK-ERK, PI3 kinase-AKT, PLCgamma-PKC and STATs modules. May also activate the NF-kappa-B signaling cascade. Also directly phosphorylates other proteins like RGS16, activating its GTPase activity and probably coupling the EGF receptor signaling to the G protein-coupled receptor signaling.

## SDS-PAGE