

Recombinant Human EGFR, His-tagged

Cat. No. EGFR-206H **Lot. No.** (See product label)

SPECIFICATION

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| Product Overview | Recombinant Human EGFR MS Standard Protein (C13 and N15-labeled, 25-645aa, NP_005219), was expressed in human 293 cells (HEK293)(produced in fully chemically defined cell culture medium, >99% incorporation). |
| Species | Human |
| Source | HEK293 |
| ProteinLength | 25-645 aa |
| Description | The epidermal growth factor receptor (EGFR; ErbB-1; HER1 in humans) is the cell-surface receptor for members of the epidermal growth factor family (EGF-family) of extracellular protein ligands. The epidermal growth factor receptor is a member of the ErbB family of receptors, a subfamily of four closely related receptor tyrosine kinases: EGFR (ErbB-1), HER2/c-neu (ErbB-2), Her 3 (ErbB-3) and Her 4 (ErbB-4). Mutations affecting EGFR expression or activity could result in cancer. |
| Form | Lyophilized from 0.22 µm filtered solution in PBS, pH7.4. Normally Mannitol or Trehalose are added as protectants before lyophilization. |
| Molecular Mass | EGFR / ErbB1, Heavy Labeled is fused with a polyhistidine tag at the C-terminus, and has a calculated MW of 69.5 kDa. The predicted N-terminus is Leu 25. DTT-reduced Protein migrates as 110-115 kDa in SDS-PAGE due to glycosylation. EGFR / ErbB1, Heavy Lab |

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| Endotoxin | Less than 1.0 EU per µg of the EGFR / ErbB1, Heavy Labeled by the LAL method. |
| Purity | >95% as determined by SDS-PAGE. |
| Storage | Avoid repeated freeze-thaw cycles. No activity loss was observed after storage at: In lyophilized state for 1 year (4oC); After reconstitution under sterile conditions for 3 months (-70oC). |
| Reconstitution | See Certificate of Analysis for reconstitution instructions and specific concentrations. |

GENE INFORMATION

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| Gene Name | EGFR epidermal growth factor receptor [Homo sapiens] |
| Official Symbol | EGFR |
| Synonyms | EGFR; epidermal growth factor receptor; epidermal growth factor receptor (avian erythroblastic leukemia viral (v erb b) oncogene homolog) , ERBB; ERBB1; erythroblastic leukemia viral (v erb b) oncogene homolog (avian); proto-oncogene c-ErbB-1; cell growth inhibiting protein 40; cell proliferation-inducing protein 61; receptor tyrosine-protein kinase erbB-1; avian erythroblastic leukemia viral (v-erb-b) oncogene homolog; ERBB; HER1; mENA; PIG61; |
| Gene ID | 1956 |
| mRNA Refseq | NM_005228 |
| Protein Refseq | NP_005219 |
| MIM | 131550 |

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| UniProt ID | P00533 |
| Chromosome Location | 7p12 |
| Pathway | Adherens junction, organism-specific biosystem; Adherens junction, conserved biosystem; Alpha6-Beta4 Integrin Signaling Pathway, organism-specific biosystem; Androgen Receptor Signaling Pathway, organism-specific biosystem; Arf6 signaling events, organism-specific biosystem; Axon guidance, organism-specific biosystem; Bladder cancer, organism-specific biosystem; |
| Function | ATP binding; MAPK/ERK kinase kinase activity; actin filament binding; double-stranded DNA binding; enzyme binding; epidermal growth factor-activated receptor activity; epidermal growth factor-activated receptor activity; identical protein binding; contributes_to nitric-oxide synthase regulator activity; nucleotide binding; protein binding; protein heterodimerization activity; protein phosphatase binding; protein tyrosine kinase activity; protein tyrosine kinase activity; protein tyrosine kinase activity; receptor activity; receptor signaling protein tyrosine kinase activity; signal transducer activity; transmembrane receptor protein tyrosine kinase activity; transmembrane receptor protein tyrosine kinase activity; transmembrane signaling receptor activity; |