

Recombinant Rat Egfr protein, His/S-tagged

Cat. No. Egfr-203R Lot. No. (See product label)

SPECIFICATION

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| Product Overview | Recombinant Rat Egfr Protein, was expressed in E. coli with His/S tag. |
| Species | Rat |
| Source | E.coli |
| Description | <p>Protein kinases are enzymes that transfer a phosphate group from a phosphate donor onto an acceptor amino acid in a substrate protein. By this basic mechanism, protein kinases mediate most of the signal transduction in eukaryotic cells, regulating cellular metabolism, transcription, cell cycle progression, cytoskeletal rearrangement and cell movement, apoptosis, and differentiation. The protein kinase family is one of the largest families of proteins in eukaryotes, classified in 8 major groups based on sequence comparison of their tyrosine (PTK) or serine/threonine (STK) kinase catalytic domains. Epidermal Growth factor receptor (EGFR) is the prototype member of the type 1 receptor tyrosine kinases. EGFR overexpression in tumors indicates poor prognosis and is observed in tumors of the head and neck, brain, bladder, stomach, breast, lung, endometrium, cervix, vulva, ovary, esophagus, stomach and in squamous cell carcinoma.</p> |
| Form | Lyophilized from sterile PBS, pH 7.4 |
| Purity | > 95 % as determined by SDS-PAGE |
| Storage | Store at -70 centigrade. Avoid repeated freeze/thaw cycles. |

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GENE INFORMATION

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|----------------------------|--|
| Gene Name | Egfr epidermal growth factor receptor [<i>Rattus norvegicus</i>] |
| Official Symbol | Egfr |
| Synonyms | EGFR; epidermal growth factor receptor; EGFR-related peptide; avian erythroblastic leukemia viral (v-erbB) oncogene homolog; Epidermal growth factor receptor formerly avian erythroblastic leukemia viral (v-erbB) oncogene homolog (ErbB1); epidermal growth factor receptor, formerly avian erythroblastic leukemia viral (v-erbB) oncogene homolog (ErbB1); Errp; ERBB1; ErbB-1; |
| Gene ID | 24329 |
| mRNA Refseq | NM_031507 |
| Protein Refseq | NP_113695 |
| Chromosome Location | 14q22 |
| 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; Axon guidance, organism-specific biosystem; Bladder cancer, organism-specific biosystem; Bladder cancer, conserved biosystem; |
| Function | actin filament binding; enzyme binding; epidermal growth factor binding; epidermal growth factor-activated receptor activity; epidermal growth factor-activated receptor activity; epidermal growth factor-activated receptor activity; epidermal growth factor-activated receptor activity; glycoprotein binding; identical protein binding; integrin |

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binding; kinase activity; contributes_to nitric-oxide synthase regulator activity; protein binding; protein heterodimerization activity; protein heterodimerization activity; protein kinase binding; protein phosphatase binding; protein tyrosine kinase activity; receptor binding; signal transducer activity; transmembrane signaling receptor activity;

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