

Active Recombinant Mouse EGFR Protein, His-tagged

Cat. No. EGFR-100M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse EGFR Protein extracellular domain (25-618aa, signal peptide removed), was expressed in HEK293 with C-terminal His tag.
Species	Mouse
Source	HEK293
ProteinLength	25-618 aa
Description	As a member of the epidermal growth factor receptor (EGFR) family, EGFR protein is type I transmembrane glycoprotein that binds a subset of EGF family ligands including EGF, amphiregulin, TGF-α, betacellulin, etc. EGFR protein plays a crucial role in signaling pathway in the regulation of cell proliferation, survival and differentiation. Binding of a ligand induces EGFR protein homo- or heterodimerization, the subsequent tyrosine autophosphorylation and initiates various down stream pathways (MAPK, PI3K/PKB and STAT). In addition, EGFR signaling also has been shown to exert action on carcinogenesis and disease progression, and thus EGFR protein is proposed as a target for cancer therapy currently.
Predicted N Terminal	Leu 22
Form	Lyophilized from sterile PBS, pH 7.4.
Bio-activity	Measured by its binding ability in a functional ELISA.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Molecular Mass	The recombinant mature mouse EGFR protein consists of 600 amino acids and has a calculated molecular mass of 67.2 KD.
Endotoxin	<1.0EU/ug, LAL method
Purity	>95% (SDS-PAGE)
Stability	Samples are stable for up to twelve months from date of receipt at -70°C.
Storage	Store it under sterile conditions at -20°C~-70°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

GENE INFORMATION

Gene Name	Egfr epidermal growth factor receptor [Mus musculus]
Official Symbol	EGFR
Synonyms	EGFR; epidermal growth factor receptor; waved 2; avian erythroblastic leukemia viral (v-erb-b) oncogene homolog; Wa5; wa2; Erbb; Errp; wa-2; A1552599; 9030024J15Rik;
Gene ID	13649
mRNA Refseq	NM_007912
Protein Refseq	NP_031938

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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

ATP binding; actin filament binding; enzyme binding; epidermal growth factor binding; epidermal growth factor-activated receptor activity; epidermal growth factor-activated receptor activity; glycoprotein binding; identical protein binding; integrin binding; kinase activity; nucleotide binding; protein binding; protein heterodimerization activity; protein kinase activity; protein kinase binding; protein phosphatase binding; protein tyrosine kinase activity; receptor activity; receptor binding; receptor signaling protein tyrosine kinase activity; signal transducer activity; transferase activity; transferase activity, transferring phosphorus-containing groups; transmembrane receptor protein tyrosine kinase activity; transmembrane signaling receptor activity;