

Recombinant Mouse EGFR Protein, His-tagged

Cat. No. EGFR-214M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse EGFR Protein, was expressed in HEK293 with His tag.
Species	Mouse
Source	HEK293
ProteinLength	1210
Description	Enables epidermal growth factor binding activity and epidermal growth factor-activated receptor activity. Involved in cellular response to amino acid stimulus and positive regulation of fibroblast proliferation. Acts upstream of or within several processes, including animal organ development; epidermal growth factor receptor signaling pathway; and protein autophosphorylation. Located in several cellular components, including basolateral plasma membrane; endocytic vesicle; and perinuclear region of cytoplasm. Is expressed in several structures, including alimentary system; brain; integumental system; limb; and respiratory system. Used to study Coronavirus infectious disease and aortic valve disease. Human ortholog(s) of this gene implicated in several diseases, including colorectal cancer; lung non-small cell carcinoma (multiple); pancreatic cancer; prostate cancer; and pulmonary tuberculosis. Orthologous to human EGFR (epidermal growth factor receptor).
Form	Lyophilized
Molecular Mass	70.1 kDa

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AA Sequence

MRPSGTARTTLLVLLTALCAAGGALEEKKVCQGTSNRLTQLGTFEDHFLSLQRMYN
 NCEVVLGNLEITYVQRNYDLSFLKTIQEVAGYVLIALNTVERIPLNLQIIRGNALYENT
 YALAILSNYGTNRTGLRELPMRNLQEILIGAVRFSNNPILCNMDTIQWRDIVQNVFMS
 NMSMDLQSHPSSCPKCDPSCPNGSCWGGGEENCQKLTKIICAQQCSHRCRGRSP
 SDCCHNQCAAGCTGPRESCLVCQKFQDEATCKDTCPLMLYNPTTYQMDVNPE
 GKYSFGATCVKKCPRNYVVDHGSVCVRACGPDYVEEEDGIRKCKKCDGPCRKVC
 NGIGIGEFKDTLSINATNIKHFKYCTAISGDLHILPVAFKGDSFTRTPPLDPRELEILKTV
 KEITGFLLIQAWPDNWDLDHAFENLEIRGRTKQHGGFSLAVVGLNITSLGLRSLKEIS
 DGDVIISGNRNLCYANTINWKKLFGTPNQKTKIMNNRAEKDCKAVNHVCNPLCSSEG
 CWGPEPRDCVSCQNVSRGRECVEKCNILEGEPREFVENSECIQCHPECLPQAMNIT
 CTGRGPDNCIQCAHYIDGPHCVKTCPAGIMGENNTLVWKYADANNVCHLCHANCT
 YGCAGPGLQGCEVWPSGPKIPSIATGIVGGLLFIVVVALGIGLFMRRRHIVRKRTLRR
 LLQERELVEPLTPSGEAPNQAHRLILKETEFKKIKVLGSGAFGTVYKGLWIPEGEKVKI
 PVAIKELREATSPKANKEILDEAYVMASVDNPHVCRLLGICLTSTVQLITQLMPYGCLL
 DYVREHKDNIGSQYLLNWCVQIAKGMNYLEDRLVHRDLAARNVLVKTPQHVKITDF
 GLAKLLGAEEKEYHAEGGKVPIKWMALLESILHRIYTHQSDVWSYGVTVWELMTFGS
 KPYDGIPASDISSILEKGERLPQPPICTIDVYMIMVKCWMIDADSRPKFRELILEFSKM
 ARDPQRYLVIQGDERMHLPSPTDSNFYRALMDEEDMEDVVDADAYLIPQQGFFNSP
 STSRTPLLSSLSATSNNSTVACINRNGSCRVKEDAFLLQRYSSDPTGAVTEDNIDDAF
 LPVPEYVNQSVPKRPAGSVQNPVYHNQPLHPAPGRDLHYQNPNSNAVGNPPEYLNNT
 AQPTCLSSGFNSPALWIQKGSHQMSLDNPDYQQDFFPKETKPNGIFKGPTAENAEY
 LRVAPPSSEFIGA

Purity

> 98%

Applications

WB; ELISA; FACS; FC

Stability

This bioreagent is stable at 4 centigrade (short-term) and -70 centigrade(long-term).
 After reconstitution, sample may be stored at 4 centigrade for 2-7 days and below -18
 centigrade for future use.

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Storage	At -20 centigrade.
Concentration	1 mg/mL
Storage Buffer	PBS (pH 7.4-7.5). Sterile-filtered colorless solution.
Reconstitution	Reconstitute in sterile distilled H ₂ O to no less than 100 µg/mL; dilute reconstituted stock further in other aqueous solutions if needed. Please review COA for lot-specific instructions. Final measurements should be determined by the end-user for optimal performance.

GENE INFORMATION

Gene Name	Egfr epidermal growth factor receptor [<i>Mus musculus</i> (house mouse)]
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; AI552599; 9030024J15Rik;
Gene ID	13649
mRNA Refseq	NM_007912
Protein Refseq	NP_031938
UniProt ID	Q01279

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