

Recombinant Mouse Egfr protein, His-tagged

Cat. No. Egfr-5224M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Egfr Protein (25-647aa), was expressed in human 293 cells (HEK293) with C-terminal His tag.
Species	Mouse
Source	HEK293
ProteinLength	25-647 aa
Description	The epidermal growth factor receptor (EGFR; ErbB-1; HER1) 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.
Predicted N Terminal	Leu25
Form	Lyophilized from 0.22 µm filtered solution in PBS, pH7.4, 10% trehalose.
Molecular Mass	The protein has a calculated MW of 71.2 kDa. The protein migrates as 86-110 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.
Endotoxin	Less than 1.0 EU per µg by the LAL method.

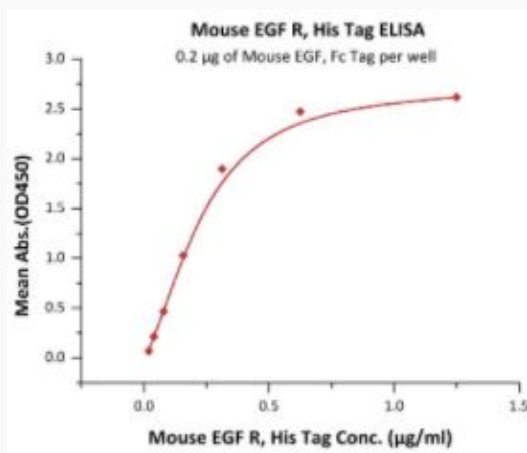
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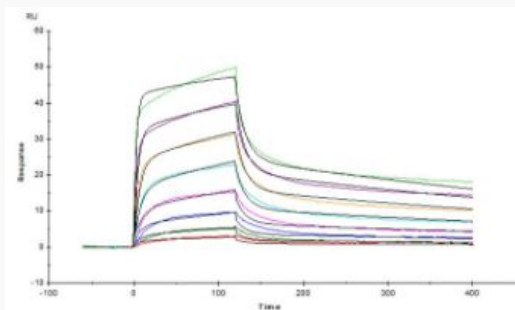
Purity	>95% as determined by SDS-PAGE.
Storage	For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower. Please avoid repeated freeze-thaw cycles. This product is stable after storage at: -20 to -70 centigrade for 12 months in lyophilized state; -70 centigrade for 3 months under sterile conditions after reconstitution.
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
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

Bioactivity-ELISA of Egfr-5224M



Immobilized Mouse EGF, Fc Tag at 2 µg/mL (100 µL/well) can bind Mouse EGF R, His Tag with a linear range of 0.02-0.313 µg/mL (QC tested).

Bioactivity-SPR



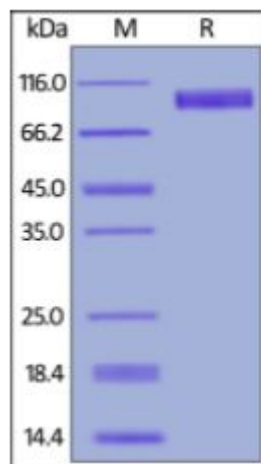
Captured Mouse EGF R, His Tag on CM5 Chip via anti-His antibody can bind Mouse EGF, Fc Tag with an affinity constant of 5.44 nM as determined in SPR assay (Biacore T200) (Routinely tested).

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**SDS-PAGE of Egfr-
5224M**



Mouse EGF R, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.

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