Active Recombinant Mouse EGF, MIgG2a Fc-tagged

Cat. No. EGF-316M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	The extracellular domain of mouse EGF (AAH17681.1) (Asn960-Arg1012) is fused to the N-terminus of the Fc region of mouse IgG2a was expressed in CHO cell
Species	Mouse
Source	CHO
ProteinLength	960-1012 a.a.
Description	This gene encodes a member of the epidermal growth factor superfamily. The encoded protein is synthesized as alarge precursor molecule that is proteolytically cleaved to generate the 53-amino acid epidermal growth factorpeptide. This protein acts a potent mitogenic factor that plays an important role in the growth, proliferationand differentiation of numerous cell types. This protein acts by binding the high affinity cell surface receptor,epidermal growth factor receptor. Defects in this gene are the cause of hypomagnesemia type 4. Dysregulation ofthis gene has been associated with the growth and progression of certain cancers. Alternate splicing results inmultiple transcript variants
Form	Lyophilized from 0.2μm-filtered solution in PBS.
Bio-activity	Measured in a cell proliferation assay.
Molecular Mass	32KDa (monomer)

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AA Sequence	Asn960-Arg1012
Endotoxin	<0.06 eu/μg="" as="" determined="" by="" lal="">
Purity	>98%, by SDS-PAGE under reducing conditions.
Stability	Stable for at least 1 year after receipt when stored at -20°C. Working aliquots are stable for up to 3 months when stored at -20°C.
Reconstitution	Reconstitute at 100μg/ml in sterile PBS.
Warning	Avoid freeze/thaw cycles.

GENE INFORMATION

Gene Name	Egf epidermal growth factor [Mus musculus]
Official Symbol	EGF
Synonyms	EGF; epidermal growth factor; pro-epidermal growth factor; Pro-epidermal growth factor precursor (EGF); AI790464;
Gene ID	13645
mRNA Refseq	NM_010113
Protein Refseq	NP_034243
Pathway	Bladder cancer, organism-specific biosystem; Bladder cancer, conserved biosystem; Cytokine-cytokine receptor interaction, organism-specific biosystem; Cytokine-cytokine receptor interaction, conserved biosystem; Delta-Notch Signaling Pathway,

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	organism-specific biosystem; Disease, organism-specific biosystem; EGFR downregulation, organism-specific biosystem;
Function	calcium ion binding; epidermal growth factor receptor binding; epidermal growth factor receptor binding; growth factor activity; protein binding;

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