Active Recombinant Mouse Epithelial Mitogen

Cat. No. Epgn-455M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Epgnprotein was expressed in E. coli. Leu53-Ala103.
Species	Mouse
Source	E.coli
ProteinLength	53-103 a.a.
Description	Epgn is aneipthelial mitogen that belongs to the EGF superfamily. Mouse Epgn cDNA encodesa 153 amino acid (aa) residue type I transmembrane precursor protein with a18 aa putative signal peptide, a 92 aa extracellular domain, a 20 aa transmembranedomain and a 22 aa cytoplasmic domain. Expression of mouse Epgn has beendetected in multiple tissues including testis, liver and heart. Over theentire protein, mouse Epgn shares fromapproximately 23% to 33% sequence homology with other EGF family members. Thefunctional internal peptide containing the EGF motif however is more than 40%homologous with that of TGFα and epiregulin. A human cDNA clone encoding amouse epigenlike protein has also been identified.
Form	Lyophilizedfrom a 0.2 um filtered solution in PBS with BSA as a carrier protein.
N-terminalSequence	Leu53
MolecularWeight	5.9 kDa
Activity	Measuredin a cell proliferation assay using Balb/3T3 mouse embryonic fibroblasts.

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	TheED50 for this effect is typically 50 150 ng/mL.
Endotoxin Level	<1.0EU per 1 μg of the protein by the LAL method.
Purity	>97%,by SDSPAGE under reducing conditions and visualized by silver stain.
Reconstitution	Reconstituteat 100μg/mL in sterile PBS containing at least 0.1% human or bovine serumalbumin.
Storage	Use amanual defrost freezer and avoid repeated freezethaw cycles. 12 months from date of receipt, 20 to 70°C as supplied. 1 month,2 to 8°C under sterile conditions after reconstitution. 3 months, 20 to 70°Cunder sterile conditions after reconstitution.

GENE INFORMATION

Gene Name	Epgn epithelial mitogen [Musmusculus]
Official Symbol	Epgn
Synonyms	Epgn; epithelialmitogen; epigen;2310069M11Rik; epigen; EPG
Gene ID	71920
mRNA Refseq	NM_053087
Protein Refseq	NP_444317
UniProt ID	Q0VEB7
Chromosome Location	5

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Function	MAP kinase kinaseactivity; epidermal growth factor receptor binding; growth factor activity

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