

Active Recombinant Mouse Epithelial Mitogen

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

SPECIFICATION

Product Overview	Recombinant Mouse Ep gn protein was expressed in E. coli. Leu53-Ala103.
Species	Mouse
Source	E.coli
Protein Length	53-103 a.a.
Description	Ep gn is an epithelial mitogen that belongs to the EGF superfamily. Mouse Ep gn cDNA encodes a 153 amino acid (aa) residue type I transmembrane precursor protein with a 18 aa putative signal peptide, a 92 aa extracellular domain, a 20 aa transmembrane domain and a 22 aa cytoplasmic domain. Expression of mouse Ep gn has been detected in multiple tissues including testis, liver and heart. Over the entire protein, mouse Ep gn shares from approximately 23% to 33% sequence homology with other EGF family members. The functional internal peptide containing the EGF motif however is more than 40% homologous with that of TGF α and epiregulin. A human cDNA clone encoding a mouse epigen-like protein has also been identified.
Form	Lyophilized from a 0.2 μ m filtered solution in PBS with BSA as a carrier protein.
N-terminal Sequence	Leu53
Molecular Weight	5.9 kDa
Activity	Measured in a cell proliferation assay using Balb/3T3 mouse embryonic fibroblasts.

 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

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

 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

Function

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

 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