

Recombinant Human Epithelial Mitogen Homolog (Mouse)

Cat. No. EPGN-41H **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Human
Source	E.coli
Description	Epigen is an EGF-related polypeptide growth factor that signals through the ErbB receptor-1. It is produced in several tissues, including the testis, liver, heart and in certain tumor cells. Epigen is mitogenic for fibroblasts and epithelial cells. Human Epigen is initially synthesized as a glycosylated 14.7 kDa transmembrane precursor protein, which is processed by proteolytic cleavage to produce a mature soluble sequence.
Molecular Weight	Approximately 7.9kDa monomeric protein, containing 72 amino acid residues, which comprises the EGF homologous portion of the Epigen precursor.
AA Sequence	AVTVTPPITA QQADNIEGPI ALKFSLCLE DHNSYINGA CAFHHEL EKA ICRCFTGYTG ERCEHLTLTS YA.
Physical Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.
Purity	>98% by SDS-PAGE and HPLC analyses.
Formulation	Lyophilized from a 0.2µm filtered concentrated (1mg/ml) solution in PBS, pH 7.4.

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Endotoxin	Less than 1EU/μg of rHuEPG as determined by LAL method.
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1% BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at <-20°C. Further dilutions should be made in appropriate buffered solutions.
Storage	This lyophilized preparation is stable at 2-8°C, but should be kept at -20°C for long term storage, preferably desiccated. Upon reconstitution, the preparation is stable for up to one week at 2-8°C. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20°C to -70°C. Avoid repeated freeze/thaw cycles.

GENE INFORMATION

Gene Name	EPGN epithelial mitogen homolog (mouse) [Homo sapiens]
Synonyms	EPGN; epithelial mitogen homolog (mouse); EPG; epigen; PRO9904; ALGV3072; FLJ75542; epigen; Epigen; Epithelial mitogen
Gene ID	255324
mRNA Refseq	NM_001013442
Protein Refseq	NP_001013460
UniProt ID	Q6UW88
Chromosome Location	4q13.3

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Function

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

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