

Recombinant Human Epigen

CATALOG #:	4969-25	25 µg
	4969-100	100 µg
	4969-1000	1 mg
SYNONYMS:	EPG, Epigen, PRO9904, ALGV3072, FLJ75542, EPGN, Epithelial mitogen	
SOURCE:	<i>E. coli</i>	
PURITY:	>98% by SDS-PAGE and HPLC analyses Endotoxin level is <0.1 ng/µg of human Epigen.	
MOLECULAR WT:	7.9 kDa	
FORM:	EPGN was lyophilized from 20 mM PBS buffer pH-7.4 containing 130 mM sodium chloride.	

RECONSTITUTION:

Centrifuge the vial prior to opening. Reconstitute in sterile dH₂O not less than 100 µg/ml. This solution can then be diluted into other aqueous buffers and stored at 4°C for 1 week or -20°C for future use.

STORAGE CONDITIONS:

The lyophilized human epigen is best-stored desiccated below 0°C. Reconstituted Epigen should be stored in working aliquots at -20°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).

DESCRIPTION:

EPGN is an EGF-related polypeptide growth factor that signals through the ErbB receptor-1. EPGN is produced in numerous tissues, including the testis, liver, heart and in certain tumor cells. EPGN is mitogenic for fibroblasts and epithelial cells. Human EPGN is originally synthesized as a glycosylated 14.7 kDa transmembrane precursor protein, which is processed by proteolytic cleavage to produce a mature soluble sequence. Recombinant Human epigen produced in *E. coli* is a single, non-glycosylated, polypeptide chain containing 72 amino acids and having a molecular mass of 7.9 kDa. Epigen is purified by proprietary chromatographic techniques.

BIOLOGICAL ACTIVITY:

Determined by the dose-dependent stimulation of the proliferation of murine Balb/3T3 cells. The expected ED₅₀ for this effect is 150-300ng/ml.

FOR RESEARCH USE ONLY! Not to be used on humans.

RELATED PRODUCTS:

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- Caspase Assay Kits & Reagents
- Mitochondrial Apoptosis Kits & Reagents
- Nuclear Apoptosis Kits & Reagents
- Apoptosis Inducers and Set
- Apoptosis siRNA Vectors

Cell Fractionation System

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- Nuclear/Cytosol Fractionation Kit
- Membrane Protein Extraction Kit
- Cytosol/Particulate Rapid Separation Kit
- Mammalian Cell Extraction Kit
- FractionPREP Fractionation System

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- Senescence Detection Kit
- High Throughput Apoptosis/Cell Viability Assay Kits
- LDH-Cytotoxicity Assay Kit
- Bioluminescence Cytotoxicity Assay Kit
- Live/Dead Cell Staining Kit

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- HAT Colorimetric Assay Kit & Reagents
- DNA Damage Quantification Kit
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