



Technical Data Sheet

Recombinant Human Epigen (rHu EPG)

Human Epigen

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.

Catalog Number:	RC216-17
Source:	<i>Escherichia coli</i> .
Molecular Weight:	Approximately 7.9kDa monomeric protein, containing 72 amino acid residues, which comprises the EGF homologous portion of the Epigen precursor.
Quantity:	5ug/25ug/1mg
Purity:	>98% by SDS-PAGE and HPLC analyses.
Biological Activity:	Determined by the dose-dependent stimulation of the proliferation of murine Balb/3T3 cells. The expected ED ₅₀ for this effect is 150-300 ng/ml.
Physical Appearance:	Sterile Filtered White lyophilized (freeze-dried) powder.
Formulation:	Lyophilized from a 0.2µm filtered concentrated (1mg/ml) solution in PBS, pH 7.4.
AA Sequence:	AVTVTPPITA QQADNIEGPI ALKFSLCLE DHNSYINGA CAFHHELEKA ICRCFTGYTG ERCEHLTLTS YA
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.
Usage:	This material is offered by Bio Basic Inc. for research, laboratory or further evaluation purposes. NOT FOR HUMAN USE.