

## Recombinant Human Epigen (Human Epigen)

### Product Information

Product Name	Cat#	Size
Recombinant Human Epigen (Human Epigen)	92515ES08	5µg
	92515ES60	100µg
	92515ES76	500µg

### Product 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, and heart, as well as 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. Recombinant Human Epigen is a 7.9 kDa monomeric protein, containing 72 amino acid residues, which comprises the EGF-homologous portion of the Epigen precursor.

### Product Properties

<b>Synonyms</b>	EPG, Epithelial Mitogen
<b>Accession</b>	Q6UW88
<b>GeneID</b>	255324
<b>Source</b>	E.coli-derived Human Epigen protein,Ala24-Ala104.
<b>Molecular Weight</b>	Approximately 7.9 kDa.
<b>AA Sequence</b>	AVTVTPPITA QQADNIEGPI ALKFSLCLE DHNSYCINGA CAFHHELEKA ICRCFTGYTG ERCEHLTLTS YA
<b>Tag</b>	None
<b>Physical Appearance</b>	Sterile Filtered White lyophilized (freeze-dried) powder.
<b>Purity</b>	> 98 % by SDS-PAGE and HPLC analyses.
<b>Biological Activity</b>	Fully biologically active when compared to standard. The ED <sub>50</sub> as determined by a cell proliferation assay using murine Balb/c 3T3 cells is less than 300 ng/mL, corresponding to a specific activity of > 3.3 × 10 <sup>3</sup> IU/mg.
<b>Endotoxin</b>	< 1.0 EU per 1µg of the protein by the LAL method.
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered concentrated solution in PBS, pH 7.4.
<b>Reconstitution</b>	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.

### Shipping and Storage

The products are shipped with ice pack and can be stored at -20°C to -80°C for 1 year.

Recommend to aliquot the protein into smaller quantities when first used and avoid repeated freeze-thaw cycles.

### Cautions

1. Avoid repeated freeze-thaw cycles.

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2. For your safety and health, please wear lab coats and disposable gloves for operation.
3. For research use only.