Epigen Human E. coli

Product Data Sheet

Type: Recombinant
Source: E. coli
Species: Human
Other names: EPG, Epithelial mitogen

Cat. No.:	
RBG10125005	(5 µg)
RBG10125025	(25 µg)
RBG10125100	(100 µg)

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.

Research topic

Growth hormone and factor-related products

Amino Acid Sequence

AVTVTPPITA QQADNIEGPI ALKFSHLCLE DHNSYCINGA CAFHHELEKA ICRCFTGYTG ERCEHLTLTS YA

Source

E. coli

Purity

98%

Biological Activity

Determined by the dose-dependent stimulation of the proliferation of murine Balb/3T3 cells. The expected ED_{50} for this effect is 150-300ng/ml.

Endotoxin

Endotoxin level is <0.1 ng/µg of protein (<1EU/µg).

Reconstitution

Centrifuge the vial prior to opening. Reconstitute in water to a concentration of 0.1-1.0 mg/ml. Do not vortex. For extended storage, it is recommended to further dilute in a buffer containing a carrier protein (example 0.1% BSA) and store in working aliquots at -20°C to -80°C

Storage, Stability/Shelf Life

-20°C

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