

Recombinant Human Epigen (rh EPGN)

Synonyms: EPG, Epigen, PRO9904, ALGV3072, FLJ75542, Epithelial mitogen.

Introduction: 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.

Description: 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.

Source: *Escherichia Coli*.

Physical Appearance: Sterile filtered white lyophilized (freeze-dried) powder.

Formulation: Lyophilized from 20mM PBS buffer pH-7.4 containing 130mM sodium chloride. The samples of 1µg contain Trehalose 5% (w/vol) for better recovery

Stability: Lyophilized Epigen although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution EPGN should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).

Please prevent freeze-thaw cycles.

Purity: Greater than 98.0% as determined by:

(a) Analysis by RP-HPLC.

(b) Analysis by SDS-PAGE.

Amino Acid: AVTVTPPITA QQADNIEGPI ALKFSLCLE DHNSYINGA CAFHHELEKA ICRCFTGYTG ERCEHLTLTS YA

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

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| <i>small</i> | 5 µg | Cat.N° | 11344190 |
| <i>medium</i> | 25 µg | Cat.N° | 11344194 |

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