

EPGN Human

Description: Epigen Recombinant Human 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.

Catalog #: CYP5-608

For research use only.

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

Source: Escherichia Coli.

Physical Appearance: Sterile Filtered White lyophilized (freeze-dried) powder.

Amino Acid Sequence: AVTVTPPITA QQADNIEGPI ALKFSLCLE DHNSYINGA
CAFHHELEKA ICRCFTGYTG ERCEHLTLTS YA.

Purity: Greater than 98.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.

Formulation:

EPGN was lyophilized from 20mM PBS buffer pH-7.4 containing 130mM sodium chloride.

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.

Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

Solubility:

It is recommended to reconstitute the lyophilized Epigen in sterile 18M-cm H₂O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.

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.

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 corresponding to a specific activity of 3,334-6,667IU/mg.

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