



Product Datasheet

Product Name	Epigen Human Recombinant
Cata No	CB501335
Source	<i>Escherichia Coli.</i>
Synonyms	EPG, Epigen, PRO9904, ALGV3072, FLJ75542, EPGN, Epithelial mitogen.

Description

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.

produced in E.Coli Epigen Recombinant Human 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.

Physical Appearance

Sterile Filtered White lyophilized (freeze-dried) powder.

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.

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.

Reconstitution

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

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.

Sequence

AVTVTPPITA QQADNIEGPI ALKFSHLCLE
DHNSYINGA CAFHHELEKA ICRCFTGYTG
ERCEHLTLTS YA