



## **Overview**

**Synonyms** Epiregulin (EREG), Human;

> Epiregulin is a member of the EGF family of growth factors which includes, among others, epidermal growth factor (EGF), transforming growth factor (TGF)-alpha, amphiregulin (ARG), HB (heparin-binding)-EGF, betacellulin, and the various heregulins. It is expressed mainly in the placenta and peripheral blood leukocytes and in certain carcinomas of the

bladder, lung, kidney and colon. Epiregulin stimulates the proliferation of keratinocytes, hepatocytes, fibroblasts and vascular smooth muscle cells. It also inhibits the growth of

several tumor-derived epithelial cell lines. Human Epiregulin is initially synthesized as a glycosylated 19.0 kDa transmembrane precursor protein, which is processed by

proteolytic cleavage to produce a 6.0 kDa mature secreted sequence.

**Species** Human Source E. coli

**Description** 

Fully biologically active when compared to standard. The ED<sub>50</sub> as determined by a cell

**Biological Activity** proliferation assay using murine Balb/c 3T3 cells is less than 2 ng/ml, corresponding to a

specific activity of > 5.0 x 10<sup>5</sup> IU/mg.

VAQVSITKCS SDMNGYCLHG QCIYLVDMSQ NYCRCEVGYT Sequence

GVRCEHFFL

## **Properties**

Measured Molecular Approximately 5.6 kDa, a single non-glycosylated polypeptide chain containing 49 amino

Weight acids.

**Purity** > 97 % by SDS-PAGE and HPLC analyses.

**Formulation** Lyophilized from a 0.2 µm filtered concentrated solution in PBS, pH 7.4.

> 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

Reconstitution to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at d -20 °C. Further dilutions should be made in appropriate buffered

solutions.

**Endotoxin Level** 

**Physical Appearance** 

**Usage** 

Less than 1 EU/µg of rHuEpiregulin as determined by LAL method.

Sterile Filtered White lyophilized (freeze-dried) powder.

This material is for research, laboratory or further evaluation purposes. NOT FOR

HUMAN USE.

This lyophilized preparation is stable at 2-8 °C, but should be kept at -20 °C for long term

storage, preferably desiccated. Upon reconstitution, the preparation is stable for up to one Storage

week at 2-8 °C. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20 °C to -70 °C. Avoid repeated freeze/thaw cycles.

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