

## EREG Human

**Description:** Epiregulin Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 50 amino acids and having a molecular mass of 6 kDa. Epiregulin is purified by proprietary chromatographic techniques.

Catalog #:CYP5-616

**Synonyms:** EREG, Epiregulin, ER.

For research use only.

**Source:** Escherichia Coli.

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

**Amino Acid Sequence:** MVAQVSITKC SSDMNGYCLH GQCIYLDMS QNYCRCEVGY  
TGVRCHEFFL.

**Purity:** Greater than 97.0% as determined by (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.

**Formulation:**

Epiregulin was lyophilized from 0.5mg/ml solution containing 20mM PBS buffer pH-7.4 containing 130mM sodium chloride.

**Stability:**

Lyophilized Epiregulin although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution Epiregulin 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 Epiregulin in sterile 18M-cm H<sub>2</sub>O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.

**Introduction:**

Epiregulin is part of the EGF family. Epiregulin functions as a ligand of EGFR, as well as a ligand of most members of the ERBB (v-erb-b2 oncogene homolog) family of tyrosine-kinase receptors. Epiregulin is expressed mostly in the placenta and peripheral blood leukocytes and in specific carcinomas of the bladder, lung, kidney and colon. Epiregulin stimulates the proliferation of keratinocytes, hepatocytes, fibroblasts and vascular smooth muscle cells. Epiregulin 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.

**Biological Activity:**

The ED<sub>50</sub> was determined by the dose-dependent stimulation of the proliferation of murine Balb/3T3 cells is 500,000 units/mg.

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