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## Product Data Sheet

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Product Name: EREG Human

Cat. No.: GP20191

Batch No.: 1

**Product Data**

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	EREG; Epiregulin; ER.		
Amino Acid Sequence	MVAQVSITKC SSDMNGYCLH GQCIYLVDMQ QNYCRCEVGY TGVRCEHFFL.		
Solubility	It is recommended to reconstitute the lyophilized Epiregulin in sterile 18MΩ-cm H <sub>2</sub> O not less than 100μg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	Epiregulin was lyophilized from 0.5mg/ml solution containing 20mM PBS buffer pH-7.4 containing 130mM sodium chloride.		

**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 < 2.0 ng/ml, corresponding to a specific activity of > 500,000 units/mg.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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### Stability

Lyophilized Epiregulin although stable at room temperature for 3 weeks, should be stored desiccated below  $-18^{\circ}\text{C}$ . Upon reconstitution Epiregulin should be stored at  $4^{\circ}\text{C}$  between 2-7 days and for future use below  $-18^{\circ}\text{C}$ . For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

### Background

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.

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