

## 32-20082: Animal-Free Recombinant Human Epiregulin(Discontinued)

**Alternative Name :** EREG

### Description

**Source:** **E.coli** Epiregulin is an EGF-related growth factor that binds specifically to EGFR (ErbB1) and ErbB4, but not ErbB2 or ErbB3. It is expressed mainly in the placenta and peripheral blood leukocytes, as well as 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. Recombinant Human Epiregulin is a 5.6 kDa monomeric protein, containing 50 amino residues, which corresponds to the mature secreted Epiregulin sequence.

### Product Info

**Amount :** 5 µg / 25 µg

**Purification :** Purity:  $\geq 98\%$  by SDS-PAGE gel and HPLC analyses.

**Content :** This recombinant protein is supplied in lyophilized form.

**Amino Acid :** MVAQVSITKC SSDMNGYCLH GQCIYLDMS QNYCRCEVG Y TGVRCEHFFL

### Application Note

Determined by its ability to stimulate the proliferation of mouse Balb/3T3 cells. The expected  $ED_{50}$  is  $\leq 0.2$  ng/ml, corresponding to a specific activity of  $\geq 5 \times 10^6$  units/mg.