

## Amphiregulin, Human

**Cat.no.** PK0140

**Product size:** 10ug 50ug 1mg

**Source:** HEK 293

**Species:** Human

**Biological Activity:** ED50 < 0.2 ng/ml, measured in a cell proliferation assay using 3T3 cells.

**Molecular Weight:** 15~20 kDa, observed by reducing SDS-PAGE.

**Formulation:** Lyophilized after extensive dialysis against PBS.

**Reconstitution:** Reconstituted in ddH<sub>2</sub>O at 100 µg/mL.

**Purity:** > 95% as analyzed by SDS-PAGE and HPLC.

**Endotoxin Level:** < 0.2 EU/µg, determined by LAL method.

**Storage:** Lyophilized recombinant Human Amphiregulin remains stable up to 6 months at lower than -70°C from date of receipt. Upon reconstitution, Human Amphiregulin should be stable up to 1 week at 4°C or up to 2 months at -20°C.

**Description:** Amphiregulin is a member of the EGF family of cytokines, which comprises at least ten proteins including EGF, TGF- $\alpha$ , HB-EGF, Epiregulin, Tomoregulin, Neuregulins and the various heregulins. Through the EGF/TGF- $\alpha$  receptor, it stimulates growth of keratinocytes, epithelial cells and some fibroblasts. Amphiregulin also inhibits the growth of certain carcinoma cell lines. Synthesized as a transmembrane protein, Amphiregulin's extracellular domain is proteolytically processed to release the mature protein.

**Amino Acid Sequence:**

00001 SVRVEQVVKP PQNKTESENT SDKPKRKKKG GKNGKNRRNR

00041 KKKNPCNAEF QNFCIHGECK YIEHLEAVTC KCQQEYFGER

00081 CGEKSMKTHS MIDSSLK

**Synonyms:** Amphiregulin, Colorectum cell-derived growth factor, CRDGF, AREG, AREGB, SDGF

**Note:** For research use only, not for use in diagnostic procedure.