

Amphiregulin, Human

Cat. No.: Z03103-10

Size: 10.0 ug

Synonyms: AR, AREG, Colorectum cell-derived growth factor (CRDGF)

Description:

Amphiregulin is a member of the EGF family of cytokines, which comprises at least ten proteins including EGF, TGF- α , HB-EGF, Epiregulin, Tomoregulin, Neuregulins and the various heregulins. Through the EGF/TGF- α 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 GKNKRRNR  
00041 KKKNPCNAEF QNFCIHGECK YIEHLEAVTC KCQQEYFGER  
00081 CGEKSMKTHS MIDSSLK
```

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 ddH₂O or PBS at 100 μ g/ml.

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

Endotoxin Level: < 0.2 EU/ μ g, 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.