

PRODUCT DATA SHEET



Bioworld Technology, Inc.

Recombinant Amphiregulin, Human

Catalog Number: BK0297-50µg

Source: HEK 293

Quantity: 50µg

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.

Molecular Weight:

15~20 kDa, observed by reducing SDS-PAGE.

Purity:

> 95% as analyzed by SDS-PAGE.

Biological Activity:

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

Physical Appearance:

Sterile Filtered White lyophilized (freeze-dried) powder.

Formulation:

Lyophilized after extensive dialysis against PBS.

AA Sequence:

SVRVEQVVKPPQNKTESENTSDKPKRK-
KKGKNGKNNRRNRKKKNPCNAEFQNFCH-
GECKYIEH-
LEAVTCKCQQEYFGERCGEKSMKTHSMIDSSLS
K

Endotoxin:

< 0.2 EU/µg, determined by LAL method.

Reconstitution:

Reconstituted in ddH₂O or PBS at 100 µg/ml.

Storage:

Lyophilized recombinant Human Amphiregulin remains stable up to 6 months at -80 °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.

Usage:

This material is offered by USA Bioworld biotech for research, laboratory or further evaluation purposes. For research use only.