

Active Recombinant Human AREG Protein

Cat. No. AREG-195A Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human AREG Protein without tag was expressed in HEK 293.
Species	Human
Source	HEK293
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.
Form	Sterile Filtered White lyophilized (freeze-dried) powder.
Bio-activity	ED50 < 0.2 ng/mL, measured in a cell proliferation assay using 3T3 cells.
Molecular Mass	15~20 kDa, observed by reducing SDS-PAGE.
AA Sequence	SVRVEQVVKPPQNKTESENTSDKPKRKKKGGKNGKNRRNRKKKNPCNAEFQNF CIHGECKYIEHLEAVTCKCQQEYFGERCGEKSMKTHSMIDSSLSK
Endotoxin	< 0.2 EU/ μ g, determined by LAL method.

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Purity	> 95% as analyzed by SDS-PAGE.
Storage	Lyophilized recombinant Human Amphiregulin remains stable up to 6 months at -80 centigrade from date of receipt. Upon reconstitution, Human Amphiregulin should be stable up to 1 week at 4 centigrade or up to 2 months at -20 centigrade.
Storage Buffer	Lyophilized after extensive dialysis against PBS.
Reconstitution	Reconstituted in ddH ₂ O or PBS at 100 µg/mL.

GENE INFORMATION

Gene Name	AREG amphiregulin [Homo sapiens]
Official Symbol	AREG
Synonyms	AREG; amphiregulin; schwannoma derived growth factor, SDGF; schwannoma-derived growth factor; colorectum cell-derived growth factor; AR; SDGF; AREGB; CRDGF; MGC13647;
Gene ID	374
mRNA Refseq	NM_001657
Protein Refseq	NP_001648
MIM	104640
UniProt ID	P15514

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