

Active Recombinant Human AREG Protein

Cat. No. AREG-02H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human AREG Protein without tag was expressed in E. coli.
Species	Human
Source	E.coli
Description	Amphiregulin (AR) is a member of the epidermal growth factor (EGF) family. AR is an autocrine growth factor and functions to regulate cell proliferation and survival through binding the EGF receptor (EGFR). AR promotes the proliferation of neural stem cells and epithelial cells, including keratinocytes and mammary epithelium. Up-regulated at puberty, AR promotes ductal outgrowth and mammary branching. In the liver, AR functions as a mitogen and prevents hepatocyte apoptosis. In a cancer context, AR protects against human adenocarcinoma apoptosis, promotes tumor cell growth, and functions as an oncogenic factor in the Hippo pathway. AR levels are increased in the brain following stress events, such as inflammation, ischemia, and hypoxia.
Bio-activity	3T3 Cell Proliferation, ED50≤20 ng/mL
Molecular Mass	Monomer, 10.1 kDa (with 87 amino acids)
AA Sequence	SVRVEQVVKPPQNKTESENTSDKPKRKKKGKNGKNRRNRKKKNPCNAEFQNFCI HGECKYIEHLEAVTCKCQQEYFGERCGEKSMK
Endotoxin	≤1 EUs/μg, Kinetic LAL (50% confidence)

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Purity	≥95%, Reducing and Non-Reducing SDS PAGE
Stability	12 months from date of receipt when stored at -20 to -80 centigrade as supplied. 1 month when stored at 4 centigrade after reconstituting as directed. 3 months when stored at -20 to -80 centigrade after reconstituting as directed.
Storage	Storage Prior to Reconstitution: -20 centigrade
Storage Buffer	Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 10 mM sodium phosphate, pH 7.5
Reconstitution	Sterile water at 0.1 mg/mL
Shipping	Room temperature
Instructions	Centrifuge vial before opening. Suspend the product by gently pipetting the above recommended solution down the sides of the vial. DO NOT VORTEX. Allow several minutes for complete reconstitution. For prolonged storage, dilute to working aliquots in a 0.1% BSA solution, store at -80 centigrade and avoid repeat freeze thaws.

GENE INFORMATION

Gene Name	AREG amphiregulin [Homo sapiens (human)]
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

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

mRNA Refseq	NM_001657
Protein Refseq	NP_001648
MIM	104640
UniProt ID	P15514

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA