

Amphiregulin, Human Recombinant

CATALOG #:	7114-10	10 µg
	7114-50	50 µg
ALTERNATE NAMES:	AR, AREG, Colorectum cell-derived growth factor (CRDGF)	
SOURCE:	E.coli	
PURITY:	≥ 95% by SDS-PAGE gel and HPLC analyses	
MOL. WEIGHT:	11.3 kDa	
ENDOTOXIN LEVEL:	< 0.1 ng/µg of protein (<1EU/µg).	
FORM:	Lyophilized	
FORMULATION:	Sterile filtered through a 0.2 micron filter. Lyophilized from 5 mM Sodium phosphate, pH 7.0.	
STORAGE CONDITIONS:	Store at -20°C. After reconstitution, aliquot and store at -20°C to -80°C. Avoid repeated freezing and thawing cycles.	

RECONSTITUTION:

Centrifuge the vial prior to opening. Reconstitute in water to a concentration of 0.1-1.0 mg/ml. Do not vortex. For extended storage, it is recommended to further dilute in a buffer containing a carrier protein (example 0.1% BSA) and store in working aliquots at -20°C to -80°C.

DESCRIPTION:

Amphiregulin is an EGF related growth factor that signals through the EGF/TGF- α receptor, and 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. There are 6 conserved cysteine residues, which form 3 intramolecular disulfide bonds essential for biological activity. Recombinant human Amphiregulin is a 11.3 kDa glycoprotein consisting of 98 amino acid residues.

BIOLOGICAL ACTIVITY:

Determined by its ability to stimulate the proliferation of mouse Balb/c 3T3 cells. The expected ED₅₀ for this effect is 5-10 ng/ml.

AMINO ACID SEQUENCE:

SVRVEQVVKP PQNKTESENT SDKPKRKKKG GKNKGKRRNR KKNPCNAEF
QNFCIHGECK YIEHLEAVTC KCQQEYFGER CGEKSMKTHS MIDSSLSK

RELATED PRODUCTS:

- TGF- α , human recombinant (**Cat. No. 4339-20, -100, -1000**)
- TGF- α antibody (**Cat. No. 5339-100**)
- Human Cell^{exp} Human Recombinant TGF- β 2 (**Cat # 6480-10, -50**)
- Human Cell^{exp} Human Recombinant TGF- β 3 (**Cat # 6481-10, -50**)
- TGF- β 1, human recombinant (**Cat. No. 4342-5, -50, -500**)
- TGF- β 2, human recombinant (**Cat. No. 4340-5, -50, -500**)
- TGF- β 3, human recombinant (**Cat. No. 4344-5, -50, -500**)
- TGF- β 1 Antibody (**Cat. No. 5559-100**)
- TGF- β 2 Antibody (**Cat. No. 5340-100**)
- TGF- β 2 Antibody (**Cat. No. 5343R-100**)
- TGF- β 3 Antibody (**Cat. No. 5344R-100**)

FOR RESEARCH USE ONLY! Not to be used in humans.