

Recombinant Human Amphiregulin (Human Amphiregulin)

Product Information

Product Name	Cat#	Size
	92517ES10	10 μ g
Recombinant Human Amphiregulin (Human Amphiregulin)	92517ES60	100 μ g
	92517ES76	500 μ g

Product 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 an 11.3 kDa glycoprotein consisting of 98 amino acid residues.

Product Properties

Synonyms	AR, AREG, Colorectum Cell-derived Growth Factor, CRDGF
Accession	P15514
GeneID	374
Source	E.coli-derived Human Amphiregulin protein, Val60-Leu108.
Molecular Weight	Approximately 11.3 kDa.
AA Sequence	SVRVEQVVVKP PQNKTESENT SDKPKRKKKG GKNKGKRRNR KKKNPCNAEF QNFCIHGECK YIEHLEAVTC KCQQEYFGER CGEKSMKTHS MIDSSLK
Tag	None
Physical Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.
Purity	> 95% by SDS-PAGE and HPLC analyses.
Biological Activity	Fully biologically active when compared to standard. The ED ₅₀ as determined by a cell proliferation assay using murine Balb/c 3T3 cells is between 5-10 ng/mL.
Endotoxin	< 1.0 EU per 1 μ g of the protein by the LAL method.
Formulation	Lyophilized from a 0.2 μ m filtered concentrated solution in PBS, pH 7.4. We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom.
Reconstitution	Reconstitute in sterile distilled water or aqueous buffer containing 0.1% BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at \leq -20 $^{\circ}$ C. Further dilutions should be made in appropriate buffered solutions.

Shipping and Storage

The products are shipped with ice pack and can be stored at -20 $^{\circ}$ C to -80 $^{\circ}$ C for 1 year.

Recommend to aliquot the protein into smaller quantities when first used and avoid repeated freeze-thaw cycles.

Cautions

1. Avoid repeated freeze-thaw cycles.
2. For your safety and health, please wear lab coats and disposable gloves for operation.

3. For research use only.