



## Recombinant Human Amphiregulin (98aa)

20150227BB



**FOR RESEARCH ONLY! NOT FOR HUMAN USE!**

<b>Cat.-no.:</b>	<b>100-393S</b>
Size:	10 µg
Lot. No.:	According to product label

### Sequence

SVRVEQVVKPPQNKTESENTSDKPKRKKKGGKNGKNNRRNRKKKNPCNAEFQN  
FCIHGECKYIEHLEAVTCKCQQEYFGERCGEKSMTKTHSMIDSSLK

### Database References

<b>Protein RefSeq:</b>	NP_001648.1
<b>Uniprot ID:</b>	P15514
<b>mRNA RefSeq:</b>	NM_001657.2

## Scientific Background

<b>Gene-ID (NCBI):</b>	374
<b>Synonyms:</b>	AREG; AR; SDGF; AREGB; CRDGF

Amphiregulin is an EGF related growth factor that signals through the EGF/TGF- $\alpha$  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.

## Product Specifications

<b>Expressed in</b>	E. coli
<b>Purity</b>	> 97% by SDS-PAGE & HPLC analyses
<b>Endotoxin level</b>	< 0.1 ng /µg of protein (<1EU/µg).
<b>Formulation</b>	lyophilized
<b>Length (aa):</b>	98
<b>MW:</b>	11.3 kDa

**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.



**AVOID REPEATED FREEZE AND THAW CYCLES!**