

## Amphiregulin Protein, Human (HEK293)

Cat. No.:	HY-P7002
Synonyms:	rHuAmphiregulin; AR; AREG; Colorectum cell-derived growth factor; CRDGF
Species:	Human
Source:	HEK293
Accession:	P15514 (S101-K198)
Gene ID:	374
Molecular Weight:	15-20 kDa

### PROPERTIES

AA Sequence	<p>S V R V E Q V V K P      P Q N K T E S E N T      S D K P K R K K K G      G K N G K N R R N R</p> <p>K K K N P C N A E F      Q N F C I H G E C K      Y I E H L E A V T C      K C Q Q E Y F G E R</p> <p>C G E K S M K T H S      M I D S S L S K</p>
Biological Activity	Measured in a cell proliferation assay using Balb/3T3 mouse embryonic fibroblast cells. The ED <sub>50</sub> for this effect ≤ 14.39 ng/mL, corresponding to a specific activity ≥ 6.950 × 10 <sup>4</sup> U/mg.
Appearance	Lyophilized powder
Formulation	Lyophilized after extensive dialysis against PBS.
Endotoxin Level	<0.2 EU/μg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH <sub>2</sub> O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

Background	Amphiregulin, an EGF receptor (EGFR) ligand, and essential for epithelial development in various organs. Amphiregulin is suggested to act as a protective factor in a liver injury model. In mice model with bleomycin-induced pneumopathy, Recombinant Human Amphiregulin improves the survival rate and suppresses the degrees of inflammation and fibrosis and the number of TUNEL-positive cells in lung tissues. Recombinant Human Amphiregulin treatment enhances the activation of Akt and Erk in lung epithelial cells <sup>[1]</sup> .
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## REFERENCES

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[1]. Fukumoto J, et al. Amphiregulin attenuates bleomycin-induced pneumopathy in mice. Am J Physiol Lung Cell Mol Physiol. 2010 Feb;298(2):L131-8.

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**Caution: Product has not been fully validated for medical applications. For research use only.**

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