

Amphiregulin Protein, Mouse (HEK293, Fc)

Cat. No.:	HY-P77868
Synonyms:	Amphiregulin; AR; SDGF; AREG; AREGB; CRDGF; MGC13647
Species:	Mouse
Source:	HEK293
Accession:	P31955 (V100-A248)
Gene ID:	11839
Molecular Weight:	45-50 kDa

PROPERTIES

AA Sequence	<p>V I K P K K N K T E G E K S T E K P K R K K K G G K N G K G R R N K K K K N P C</p> <p>T A K F Q N F C I H G E C R Y I E N L E V V T C N C H Q D Y F G E R C G E K S M</p> <p>K T H S E D D K D L S K I A V V A V T I F V S A I I L A A I G I G I V I T V H L</p> <p>W K R Y F R E Y E G E T E E R R R L R Q E N G T V H A I A</p>
Biological Activity	Measured in a cell proliferation assay using Balb/3T3 cells. The ED ₅₀ for this effect is 19.54 ng/mL, corresponding to a specific activity is 5.11×10 ⁴ units/mg.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4. Normally 8% trehalose is added as protectant before lyophilization.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH ₂ O.
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, a ligand for the EGF receptor (EGFR), functions as both an autocrine growth factor and a mitogen for a diverse array of target cells, such as astrocytes, Schwann cells, and fibroblasts. Its impact spans cellular proliferation, and during its immature precursor stage, Amphiregulin engages in interactions with CNIH. This versatile ligand's capacity to activate EGFR underscores its crucial role in regulating cell growth and underscores its significance in orchestrating various cellular functions across different cell types.
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Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA