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Datasheet for ABIN1692249

**Amphiregulin Protein (AREG) (AA 101-198)**

## Overview

Quantity:	50 µg
Target:	Amphiregulin (AREG)
Protein Characteristics:	AA 101-198
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant

## Product Details

Purpose:	Recombinant Human Amphiregulin/AREG
Sequence:	MSVRVEQVVK PPQNKTESN TSDKPKRKKK GGKNGKNRRN RKKKNPCNAE FQNFCIHGEC KYIEHLEAVT CKCQQEYFGE RCGEKSMKTH SMIDSSLK
Characteristics:	Recombinant Human Amphiregulin/AREG
Purity:	> 95 % as determined by reducing SDS-PAGE.
Sterility:	0.2 µm filtered
Endotoxin Level:	Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test

## Target Details

Target:	Amphiregulin (AREG)
Alternative Name:	Amphiregulin/AREG ( <a href="#">AREG Products</a> )
Background:	Recombinant Human Amphiregulin/AREG is produced with our E. coli expression system. The

## Target Details

target protein is expressed with sequence (Ser101-Lys198) of Human AREG.

Amphiregulin (AREG) is a single-pass membrane protein with 252 AAs. AREG belongs to the amphiregulin family, which contains 1 EGF-like domain. AREG is expressed in a variety of tissues including ovary, placenta, lung, kidney, stomach, colon, and breast. It is related to Epidermal Growth Factor (EGF) and Transforming Growth Factor  $\alpha$  (TGF- $\alpha$ ). As an EGF-related growth factor, AREG interacts with the EGF/TGF- $\alpha$  receptor to promote the growth of normal epithelial cells and inhibits the growth of certain aggressive carcinoma cell lines. AREG may also play a protective role in Bleomycin-Induced Pneumopathy.

Molecular Weight: 11.4 kDa

UniProt: [P15514](#)

Pathways: [RTK Signaling, EGFR Signaling Pathway](#)

## Application Details

Restrictions: For Research Use only

## Handling

Format: Lyophilized

Reconstitution: It is not recommended to reconstitute to a concentration less than 100  $\mu$ g/mL.  
Dissolve the lyophilized protein in ddH<sub>2</sub>O.  
Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

Buffer: Lyophilized from a 0.2  $\mu$ m filtered solution of 20 mM PB, 150 mM NaCl, pH 7.4.

Handling Advice: Always centrifuge tubes before opening. Do not mix by vortex or pipetting.

Storage: 4 °C/-20 °C/-80 °C

Storage Comment: Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks.  
Reconstituted protein solution can be stored at 4-7°C for 2-7 days.  
Aliquots of reconstituted samples are stable at < -20°C for 3 months.