

Datasheet for ABIN7273804

**Amphiregulin Protein (AREG) (AA 101-187) (Fc Tag)****3** Images[Go to Product page](#)

## Overview

Quantity:	100 µg
Target:	Amphiregulin (AREG)
Protein Characteristics:	AA 101-187
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Amphiregulin protein is labelled with Fc Tag.

## Product Details

Purpose:	Human AREG Protein
Sequence:	Ser101-Lys187
Characteristics:	Recombinant Human AREG Protein is expressed from HEK293 with hFc tag at the N-Terminus. It contains Ser101-Lys187.
Purity:	> 95 % as determined by Tris-Bis PAGE, > 95 % as determined by HPLC
Sterility:	0.22 µm filtered
Endotoxin Level:	Less than 1EU per µg by the LAL method.
Biological Activity Comment:	Immobilized Human AREG, hFc Tag at 0.5µg/ml (100µl/Well) on the plate. Dose response curve for Biotinylated Anti-AREG Antibody, hFc Tag with the EC50 of 21.5ng/ml determined by ELISA. See testing image for detail.

## Target Details

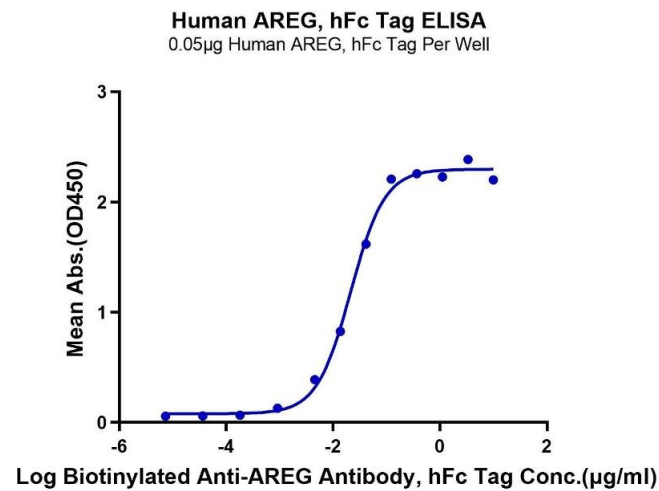
Target:	Amphiregulin (AREG)
Alternative Name:	AREG ( <a href="#">AREG Products</a> )
Background:	Amphiregulin (AREG) is a member of the epidermal growth factor (EGF) family and is expressed in a plethora of cancers. Tumour growth and metastasis were decreased by AREG silencing in an orthotopic model of pancreatic cancer. AREG may play a critical role in cell migration, invasion, and EMT by activating the EGFR/ERK/NF-κB signalling pathway in pancreatic cancer cells.
Molecular Weight:	37.3 kDa. Due to glycosylation, the protein migrates to 45-50 kDa based on Tris-Bis PAGE result.
UniProt:	<a href="#">P15514</a>
Pathways:	<a href="#">RTK Signaling</a> , <a href="#">EGFR Signaling Pathway</a>

## Application Details

Restrictions:	For Research Use only
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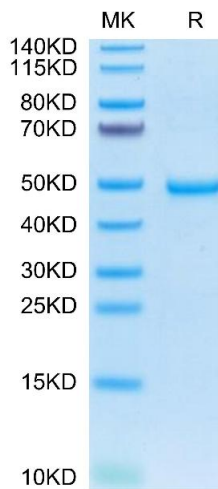
## Handling

Format:	Lyophilized
Reconstitution:	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/mL is recommended. Dissolve the lyophilized protein in distilled water.
Buffer:	Lyophilized from 0.22µm filtered solution in PBS ( pH 7.4). Normally 8 % trehalose is added as protectant before lyophilization.
Storage:	-20 °C,-80 °C
Storage Comment:	-20 to -80°C for 12 months as supplied from date of receipt.,-80°C for 3-6 months after reconstitution.,2-8°C for 2-7 days after reconstitution.,Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.
Expiry Date:	12 months



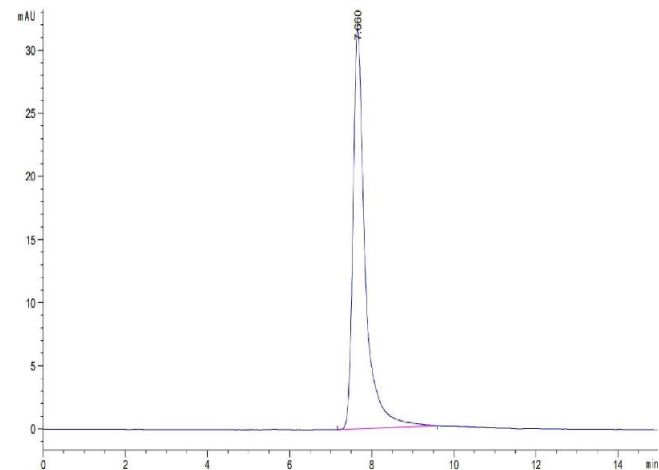
**ELISA**

**Image 1.** Immobilized Human AREG, hFc Tag at 0.5 µg/mL (100 µL/Well) on the plate. Dose response curve for Biotinylated Anti-AREG Antibody, hFc Tag with the EC50 of 21.5 ng/mL determined by ELISA.



**SDS-PAGE**

**Image 2.** Human AREG on Tris-Bis PAGE under reduced condition. The purity is greater than 95 % .



**Size-exclusion chromatography-High Pressure Liquid Chromatography**

**Image 3.** The purity of Human AREG is greater than 95 % as determined by SEC-HPLC.