

Recombinant Human Amphiregulin/AREG Protein

Catalog No.: RP03528

Sequence Information

Species	Gene ID
Human	374
Swiss Prot	Tags
P15514	N-hFc

Synonyms

AREG, AREGB, SDGF

Product Information

Source	Purification
HEK293 cells	≥ 95 % as determined by Tris-Bis PAGE; ≥ 95 % as determined by HPLC.

Calculated MW Observed MW

37.3 kDa 45-50 kDa

Endotoxin

< 1 EU/μg of the protein by LAL method.

Formulation

Lyophilized from 0.22 μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.

Reconstitution

Centrifuge the tube before opening. Reconstituting to a concentration more than 100 μg/ml is recommended. Dissolve the lyophilized protein in distilled water.

Background

Human 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.

Basic Information

Description

Recombinant Human Amphiregulin/AREG Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Ser101-Lys187) of Human Amphiregulin/AREG (Accession # NP_001648.1) fused with hFc tag at the N-terminus.

Activity

Immobilized Human AREG, hFc Tag at 1 μg/ml (100 μl/Well) on the plate. Dose response curve for Biotinylated Anti-AREG Antibody, hFc Tag with the EC50 of 32.5 ng/ml determined by ELISA.

Shipping

Lyophilized proteins are shipped at ambient temperature. Liquid proteins are shipped at frozen temperature with dry ice. Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at -20°C

Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for handling.

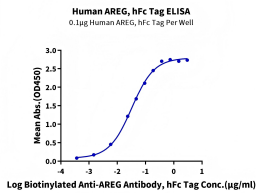
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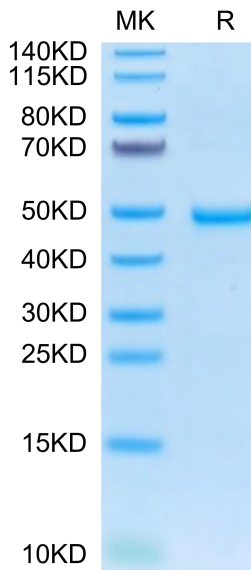
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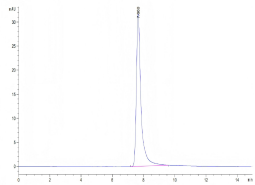
Validation Data



Immobilized Recombinant Human Amphiregulin/AREG Protein at 1µg/ml (100 µl /Well) on the plate. Dose response curve for Biotinylated Anti-AREG Antibody, hFc Tag with the EC50 of 32.5ng/ml determined by ELISA



Recombinant Human Amphiregulin/AREG Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.



The purity of Recombinant Human Amphiregulin/AREG Protein is greater than 95% as determined by SEC-HPLC.