Human AREG Protein

Cat. No. AEG-HM201

Description

Source	Recombinant Human AREG Protein is expressed from HEK293 with hFc tag at the N-terminus.
	It contains Ser101-Lys187.
Accession	P15514
Molecular Weight	The protein has a predicted MW of 37.3 kDa. Due to glycosylation, the protein migrates to 45-50 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 1 EU per μg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE
	> 95% as determined by HPLC

Formulation and Storage

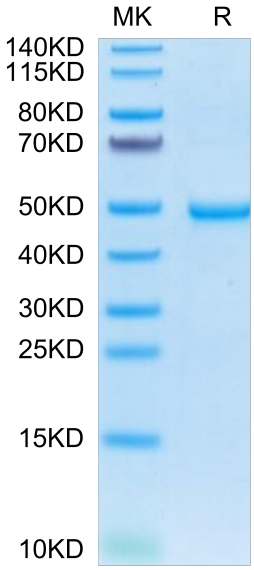
Formulation	Lyophilized from 0.22 μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
Storage	-20 to -80°C for 24 months as supplied from date of receipt.-80°C for 3 months after reconstitution.Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

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/NFκB signalling pathway in pancreatic cancer cells.

Assay Data

Bis-Tris PAGE



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

SEC-HPLC

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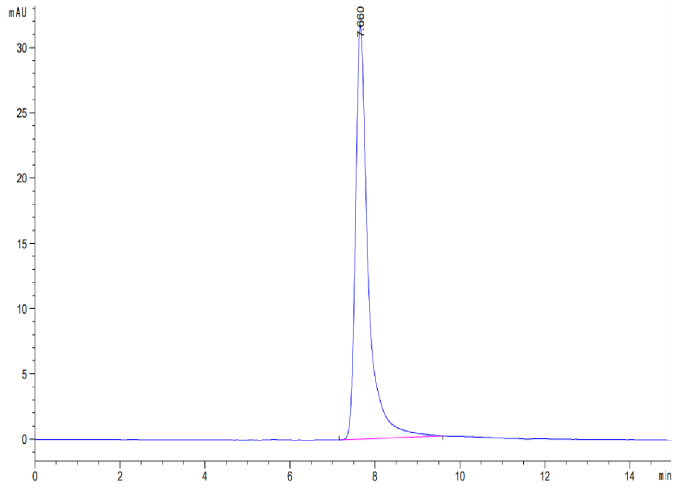
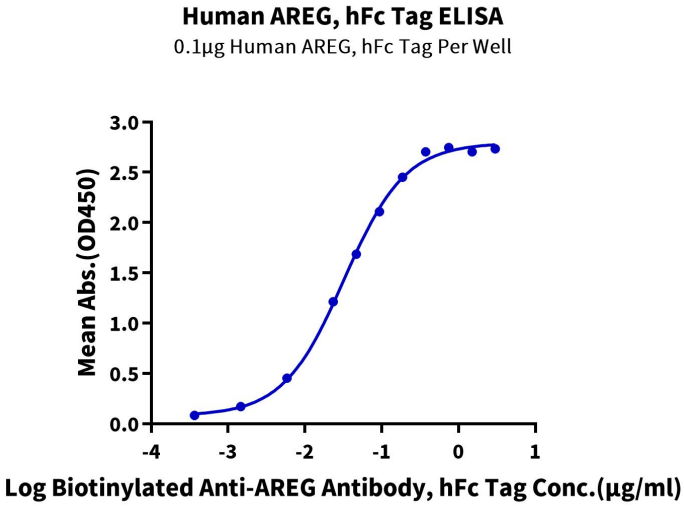


The purity of Human AREG is greater than 95% as determined by SEC-HPLC.

ELISA Data



Immobilized Human AREG, hFc Tag 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 (QC Test).