

Recombinant Mouse Amphiregulin/AREG Protein

Catalog No.: RP03167 **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Mouse	11839	P31955

Tags

N-hFc

Synonyms

AREG;AR;AREGB;CRDGF;SDGF;amphiregulin

Product Information

Source	Purification
HEK293 cells	≥ 95 % as determined by SDS-PAGE. ≥ 95 % as determined by HPLC.

Calculated MW	Observed MW
38.6 kDa	45-50 kDa

Endotoxin

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

Formulation

Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4. Contact us for customized product form or formulation.

Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Contact

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Background

Amphiregulin (AREG) is a ligand of the epidermal growth factor receptor (EGFR), a widely expressed transmembrane tyrosine kinase. AREG is synthesized as a membrane-anchored precursor protein that can engage in juxtacrine signaling on adjacent cells. Alternatively, after proteolytic processing by cell membrane proteases, mainly TACE/ADAM17, AREG is secreted and behaves as an autocrine or paracrine factor.

Basic Information

Description

Recombinant Mouse Amphiregulin/AREG Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Val100-Ala248) of Mouse Amphiregulin/AREG (Accession #NP_033834.1) fused with hFc tag at the N-terminus.

Bio-Activity

Shipping

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

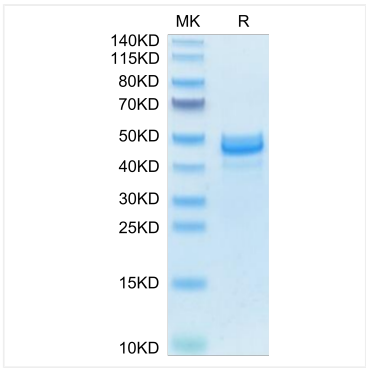
Avoid repeated freeze/thaw cycles.

Operational Notes

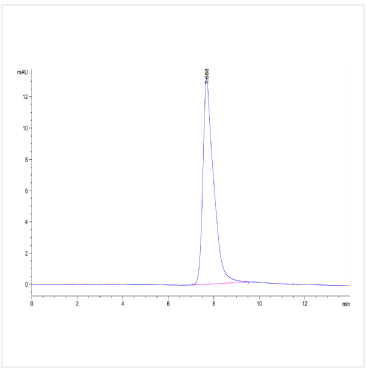
For your safety and health, please wear a lab coat and disposable gloves for handling.



Validation Data



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



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