

Recombinant Human AGER/RAGE Protein

Catalog No.: RP00154 **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Human	177	Q15109

Tags

C-hFc&His

Synonyms

AGER;RAGE;SCARJ1

Product Information

Source	Purification
HEK293 cells	> 90% by SDS-PAGE.

Calculated MW	Observed MW
60.89 kDa	80-100 kDa

Endotoxin

< 0.1 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

Receptor for Advanced Glycosylation End Products (RAGE, or AGER) is a member of the immunoglobulin super-family transmembrane proteins, as a signal transduction receptor which binds advanced glycation endproducts, certain members of the S100/calgranulin family of proteins, high mobility group box 1 (HMGB1), advanced oxidation protein products, and amyloid (beta-sheet fibrils). It is a multiligand receptor, and besides AGE, interacts with other molecules implicated in homeostasis, development, and inflammation, and certain diseases, such as atherosclerosis, arthritis, Alzheimer's disease, atherosclerosis and aging associated diseases.

Basic Information

Description

Recombinant Human AGER/RAGE Protein is produced by HEK293 expression system. The target protein is expressed with sequence (Gln24-Ala344) of human AGER/RAGE (Accession #NP_001127.1) fused with an Fc, 6×His tag at the C-terminus.

Bio-Activity

1. Measured by its binding ability in a functional ELISA. Immobilized Recombinant human HMGB1 at 2 μg/mL (100 μL/well) can bind Recombinant human AGER with a linear range of 15-50 ng/mL. 2. Measured by its binding ability in a functional ELISA. Immobilized Human S100A12 at 2 μg/mL (100 μL/well) can bind recombinant Human AGER/RAGE, the EC₅₀ of Human AGER/RAGE is 27.25 ng/mL.

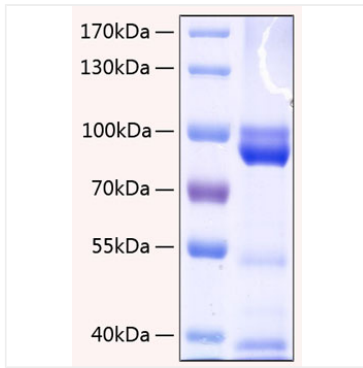
Storage

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

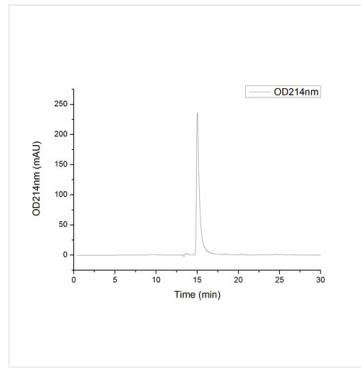
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

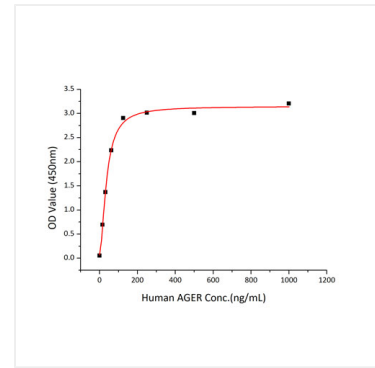
Validation Data



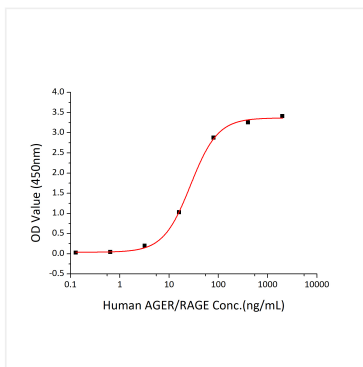
Active Recombinant Human AGER/RAGE Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 100 kDa.



The purity of Human AGER/RAGE Protein (Cat.RP00154) was greater than 95% as determined by SEC-HPLC.



Immobilized Recombinant human HMGB1 at 2 $\mu\text{g/mL}$ (100 $\mu\text{L/well}$) can bind Recombinant human AGER with a linear range of 15-50 ng/mL.



Immobilized Human S100A12 at 2 $\mu\text{g/mL}$ (100 $\mu\text{L/well}$) can bind recombinant Human AGER/RAGE, the EC_{50} of Human AGER/RAGE is 27.25 ng/mL.