

# 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.

### 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 EC<sub>50</sub> of Human AGER/RAGE is 27.25 ng/mL.

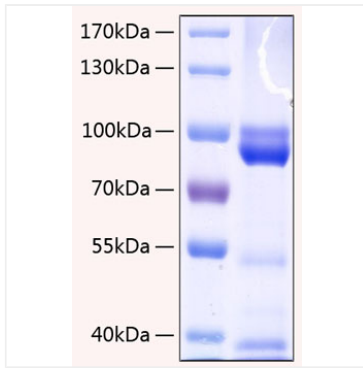
### Storage

Store the lyophilized protein at -20°C to -80 °C for long term.

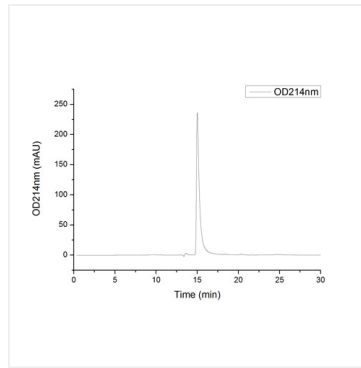
After reconstitution, the protein solution is stable at -20 °C for 3 months, at 2-8 °C for up to 1 week.

Avoid repeated freeze/thaw cycles.

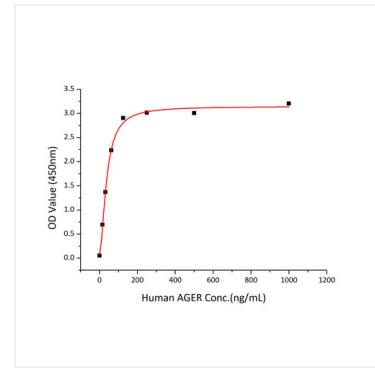
## Validation Data



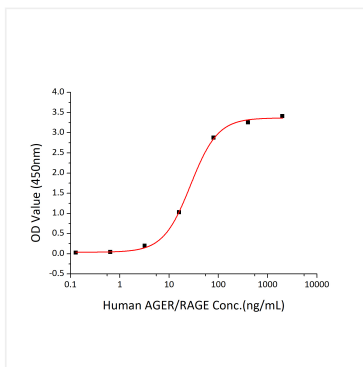
Active Recombinant Human AGER/RAGE Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 100 kDa.



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  $\text{EC}_{50}$  of Human AGER/RAGE is 27.25 ng/mL.