# Recombinant Human AGER/RAGE Protein

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Catalog No.: RP00154 Recombinant

# **Sequence Information**

**Species** Gene ID **Swiss Prot** Human 177 015109

**Tags** C-hFc&His

**Synonyms** AGER; RAGE; SCARJ1

# **Product Information**

**Purification** Source

HEK293 cells ≥ 90% as determined by SDS-PAGE;≥ 90% as

determined by HPLC.

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 stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

### **Contact**

400-999-6126 8 cn.market@abclonal.com.cn

# **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  $\mu$ g/mL (100  $\mu$ L/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>so</sub> of Human AGER/RAGE is 27.25 ng/mL.

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.

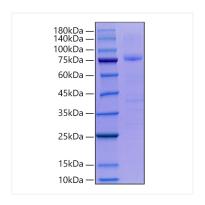
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

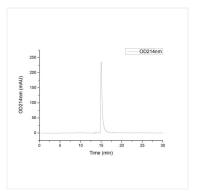
#### Operational Notes

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

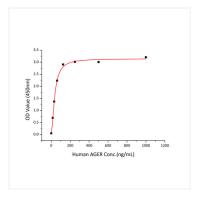
# **Validation Data**



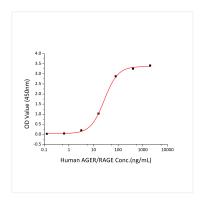
Recombinant Human AGER/RAGE Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.



The purity of Human AGER/RAGE Protein (Cat.RP00154) was greater than 90% as determined by SEC-HPLC.



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



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