

Recombinant Human AGER/RAGE Protein

Catalog No.: RP00154

Sequence Information

Species	Gene ID
Human	177
Swiss Prot	Tags
Q15109	C-hFc&His
Synonyms	
AGER,RAGE,SCARJ1	

Product Information

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

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.

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.

Shipping

Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at -20°C

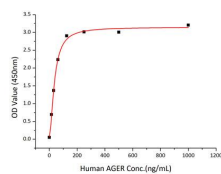
Operational Notes

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

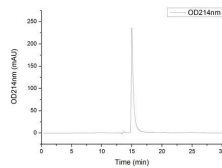
Contact

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

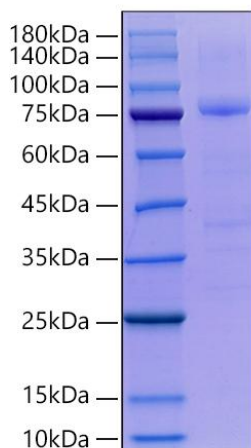
Validation Data



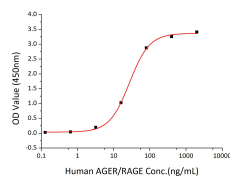
Immobilized Recombinant human HMGB1 at 2 µg/mL (100 µL/well) can bind Recombinant human AGER with a linear range of 15–50 ng/mL.



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



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



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.