

## Soluble Advanced Glycation End Product-Specific Receptor Human HEK293

### Product Data Sheet

<b>Type:</b> Recombinant	<b>Cat. No.:</b>	
<b>Source:</b> HEK293	RD172116025-HEK	(0.025 mg)
<b>Species:</b> Human	RD172116100-HEK	(0.1 mg)
<b>Other names:</b> Receptor for advanced glycosylation end product, AGER, RAGE		

### Description

Total 331 AA, MW: 35.2 kDa (calculated). C-terminal Flag-tag 11 AA (highlighted).

### Introduction to the Molecule

The receptor for advanced glycation end products (RAGE) is a multiligand member of the immunoglobulin superfamily of cell surface molecules. It mediates interactions of advanced glycation end products (AGE), the products of nonenzymatic glycoxidation of proteins/lipids that accumulate in the plasma and tissues of patients with diabetes.

### Research topic

Diabetology - Other Relevant Products, Neural tissue markers, Renal disease

### Amino Acid Sequence

AQNITARIGE PLVLKCKGAP KKPPQRLEWK LNTGRTEAWK VLSPQGGGPW DSVARVLPNG SLFLPAVGIQ DEGIFRCQAM  
 NRNGKETKSN YRVRVYQIPG KPEIVDSASE LTAGVPNKVG TCVSEGSYPA GTLSWHLDGK PLVPNEKGVS VKEQTRRHPE  
 TGLFTLQSEL MVTTPARGGDP RPTFSCSFSP GLPRHRALRT APIQPRVWEP VPLEEVQLVV EPEGGAVAPG GTVTTLTCEVP  
 AQPSPQIHWM KDGVPLPLPP SPVLILPEIG PQDQGTYSVCV ATHSSHGPE SRAVSISIIE PGEEGPTAGS VGGSGLTLA  
**AAADYKDDDD K**

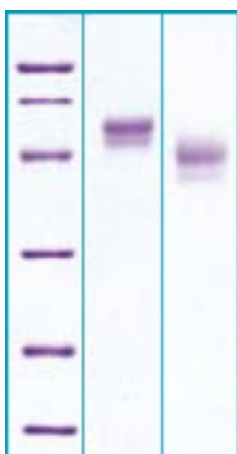
### Source

HEK293

### Purity

Purity as determined by densitometric image analysis: >95%

### SDS-PAGE gel



- 12% SDS-PAGE separation of Human sRAGE
1. MW marker - 14, 21, 31, 45, 66, 97 kDa
  2. reduced and heated sample, 2.5 µg / lane
  3. nonreduced and nonheated sample, 2.5 µg / lane

### Endotoxin

< 1.0 EU/ug

### Formulation

Filtered (0.4 µm) and lyophilized from 0.5 mg/mL in 20 mM Tris, 50 mM NaCl, pH 7.5

## Reconstitution

Add deionized water to prepare a working stock solution of approximately 0.5 mg/ml and let the lyophilized pellet dissolve completely. Filter sterilize your culture media/working solutions containing this non-sterile product before using in cell culture.

## Shipping

At ambient temperature. Upon receipt, store the product at the temperature recommended below.

## Storage, Stability/Shelf Life

Store the lyophilized protein at -80 °C. Lyophilized protein remains stable until the expiry date when stored at -80 °C. Aliquot reconstituted protein to avoid repeated freezing/thawing cycles and store at -80 °C for long term storage. Reconstituted protein can be stored at 4 °C for a week.

## Quality Control Test

BCA to determine quantity of the protein.

SDS PAGE to determine purity of the protein.

LAL TEST to determine endotoxin level.

## Applications

Cell culture and/or animal studies, ELISA, Western blotting

## Note

This product is intended for research use only. The Certificate of Analysis is available on [www.biovendor.com](http://www.biovendor.com)

## References to this Product

- Deane R, Singh I, Sagare AP, Bell RD, Ross NT, LaRue B, Love R, Perry S, Paquette N, Deane RJ, Thiyagarajan M, Zarcone T, Fritz G, Friedman AE, Miller BL, Zlokovic BV. *A multimodal RAGE-specific inhibitor reduces amyloid beta-mediated brain disorder in a mouse model of Alzheimer disease.* J Clin Invest. 2012 Apr 2;122 (4):1377-92
- Van Crombruggen K, Holtappels G, De Ruyck N, Derycke L, Tomassen P, Bachert C. *RAGE processing in chronic airway conditions: involvement of Staphylococcus aureus and ECP.* J Allergy Clin Immunol. 2012 Jun;129 (6):1515-21.e8

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