Soluble Advanced Glycation End Product-Specific Receptor Human E. coli

Product Data Sheet

Type: Recombinant
Source: E. coli
Species: Human
Other names: Receptor for advanced glycosylation end product, AGER, RAGE

Cat. No.:
RD172116100 (0.1 mg)

Description

Total 339 AA. MW: 36.5 kDa. UniProtKB acc.no. Q15109. N-Terminal His-tag 14 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

MRGSHHHHHH GMASAQNITA RIGEPLVLKC KGAPKKPPQR LEWKLNTGRT EAWKVLSPQG GGPWDSVARV LPNGSLFLPA
VGIQDEGIFR CQAMNRNGKE TKSNYRVRVY QIPGKPEIVD SASELTAGVP NKVGTCVSEG SYPAGTLSWH LDGKPLVPNE
KGVSVKEQTR RHPETGLFTL QSELMVTPAR GGDPRPTFSC SFSPGLPRHR ALRTAPIQPR VWEPVPLEEV QLVVEPEGGA
VAPGGTVTLT CEVPAQPSPQ IHWMKDGVPL PLPPSPVLIL PEIGPQDQGT YSCVATHSSH GPQESRAVSI SIIEPGEEGP
TAGEGFDKVR EAEDSPQHM

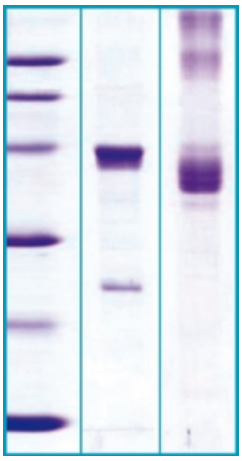
Source

E. coli

Purity

>95%

SDS-PAGE gel



12% SDS-PAGE separation of Human sRAGE
1. M.W. marker - 14, 21, 31, 45, 66, 97 kDa
2. reduced and heated sample, 5µg/lane
3. non-reduced and non-heated sample, 5µg/lane

Endotoxin

< 1.0 EU/ug

Formulation

Filtered (0.4 µm) and lyophilized in 0.5 mg/mL in 0.03 M Acetate buffer, pH=4.0

Reconstitution

Add 0.1 M Acetate buffer pH4 to prepare a working stock solution of approximately 0.5 mg/mL and let the lyophilized pellet dissolve completely. For conversion into higher pH value, we recommend intensive dilution by relevant buffer to a concentration of 10 µg/mL. In higher concentrations the solubility of this antigen is limited. 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 to determine quantity of endotoxin.

Applications

Western blotting

Note

This product is intended for research use only.

References to this Product

- Liu F, Teodorowicz M, Wichers HJ, Van Boekel MA, Hettinga KA.. *Generation of sRAGE-binding ligands during extensive heat treatment of whey protein/lactose mixtures is dependent on glycation and aggregation.* Journal of Agricultural and Fo. July 2016;

HEADQUARTERS: BioVendor Laboratorní medicína, a.s.	Karasek 1767/1	621 00 Brno CZECH REPUBLIC	Phone: +420-549-124-185 Fax: +420-549-211-460	E-mail: Web:	info@biovendor.com sales@biovendor.com www.biovendor.com
AUSTRIA: BioVendor GesmbH	Nußdorfer Straße 20/10	1090 Vienna AUSTRIA	Phone: +43-1-89090-25 Fax: +43-1-89090-2515	E-mail:	infoAustria@biovendor.com
GERMANY, SWITZERLAND: BioVendor GmbH	Otto-Hahn-Straße 16	34123 Kassel GERMANY	Phone: +49-6221-433-9100 Fax: +49-6221-433-9111	E-mail:	infoEU@biovendor.com
USA, CANADA AND MEXICO: BioVendor LLC	128 Bingham Rd. Suite 1300	Asheville, NC 28806 USA	Phone: +1-828-575-9250 +1-800-404-7807 Fax: +1-828-575-9251	E-mail:	infoUSA@biovendor.com