Datasheet for ABIN7534098

RAGE Protein (Fc Tag,His tag)

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Overview

Quantity:	100 µg
Target:	RAGE (AGER)
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This RAGE protein is labelled with Fc Tag,His tag.

Product Details

Purpose:	Active Recombinant Human AGER/RAGE Protein
Sequence:	QNITARIGEP LVLKCKGAPK KPPQRLEWKL NTGRTEAWKV LSPQGGGPWD SVARVLPNGS LFLPAVGIQD EGIFRCQAMN RNGKETKSNY RVRVYQIPGK PEIVDSASEL TAGVPNKVGT CVSEGSYPAG TLSWHLDGKP LVPNEKGVSV KEQTRRHPET GLFTLQSELM VTPARGGDPR PTFSCSFSPG LPRHRALRTA PIQPRVWEPV PLEEVQLVVE PEGGAVAPGG TVTLTCEVPA QPSPQIHWMK DGVPLPLPPS PVLILPEIGP QDQGTYSCVA THSSHGPQES RAVSISIIEP GEEGPTAGSV GGSGLGTLAL A
Specificity:	Gln24-Ala344
Purity:	> 90 % by SDS-PAGE.
Sterility:	0.22 µm filtered
Endotoxin Level:	< 0.1 EU/µg of the protein by LAL method.
Biological Activity Comment:	1.Measured by its binding ability in a functional ELISA. Immobilized Recombinant human

Product Details

	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_{50} of Human AGER/RAGE is 27.25 ng/mL.

Target Details

Target:	RAGE (AGER)
Alternative Name:	AGER/RAGE (AGER Products)
Background:	Description: 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. Name: AGER,RAGE,SCARJ1
Gene ID:	177
UniProt:	Q15109
Pathways:	Carbohydrate Homeostasis, Toll-Like Receptors Cascades, Smooth Muscle Cell Migration, S100 Proteins

Application Details

Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid votex 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.
Buffer:	Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.

Handling

Storage:	-20 °C,-80 °C
Storage Comment:	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.