## For Research Use Only Recombinant Mouse RAGE protein (His Tag)



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## Catalog Number: Eg0873

Basic Information	Species: Mouse	Purity: >90 %, SDS-PAGE	Tag: His Tag
Technical Specifications	Purity: >90 %, SDS-PAGE		
	<mark>Endotoxin Level:</mark> <0.1 EU/ μ g protein, L	AL method	
	Source: HEK293-derived Mouse RAGE protein Gly23-Ala340 (Accession# Q62151-1) with a His tag at the C-terminus.		
	GenelD: 11596		
	Accession: Q62151-1		
	Predicted Molecular N 34.8 kDa	Aass:	
	SDS-PAGE: 37-45 kDa, reducing (I	R) conditions	
	Formulation: Lyophilized from 0.22 protectants before lyo	$\mu$ m filtered solution in PBS, pH 7.4. Normally ophilization.	5% trehalose and 5% mannitol are added as
<b>Biological Activity</b>	Not tested		
Storage and Shipping	Storage: It is recommended th	at the protein be aliquoted for optimal storag	e. Avoid repeated freeze-thaw cycles.
	<ul> <li>Until expiry d</li> <li>3 months, -20</li> </ul>	late, -20 $^\circ\!\!\!\!\!\!^\circ$ to -80 $^\circ\!\!\!\!\!\!\!\!^\circ$ as lyophilized proteins. ) $^\circ\!\!\!\!\!\!\!\!\!^\circ$ to -80 $^\circ\!\!\!\!\!\!\!^\circ$ under sterile conditions after rec	constitution.
	Shipping: The product is shippe temperature.	d at ambient temperature. Upon receipt, stor	e it immediately at the recommended
Reconstitution	Briefly centrifuge the	tube before opening. Reconstitute at 0.1-0.5	mg/mL in sterile water.
Background	RAGE (receptor for advanced glycation endproducts), also called AGER, is a transmembrane receptor of the immunoglobulin super family. It mediates interactions of advanced glycosylation end products (AGE) which accumulate in vascular tissue in aging in diabetes. Acts as a mediator of vascular inflammation such as atherosclerosis and a complication of diabetes. AGE/RAGE signal regulates production or expression of TNF- alpha, oxidative stress, and endothelial dysfunction in type 2 diabetes. Interaction with S100A12 on endothelium, mononuclear phagocytes, and lymphocytes triggers cellular activation. Interaction with S100B after myocardial infarction regulates myocyte apoptosis by activating ERK1/2 and p53/TP53 signaling. ABPP- initiated RAGE signaling, especially stimulation of P38 mitogen-activated protein kinase (MAPK), delivers ABPP as a complex with RAGE to the intraneuronal. RAGE has higher expression in lung tissues, in particular in alveolar type I cells, and is lost in idiopathic pulmonary fibrosis (IPF).		
References	1. Neeper M. et al. (199 2. Hofmann MA. et al. ( 3. Markus A. et al. (200 4. Xue G. et al. (2008) / 5. Takuma K. et al. (200 6. Fang F. et al. (2010) /	92) J Biol Chem. 267(21):14998-5004. 1999) Cell. 97(7):889-901. 8) Am J Respir Cell Mol Bio. 39(3):337-45. Am J Physiol Heart Circ Physiol. 295(2):H491-8 19) Proc Natl Acad Sci U S A. 106(47):20021-6. FASEB J. 24(4):1043-55.	
Synonyms	Ager, Advanced glycos	sylation end product-specific receptor, MOK, I	RAGE 1, RAGE1

## Selected Validation Data



Purity of Recombinant Mouse RAGE was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) and non-reducing (NR) conditions and stained using Coomassie blue.

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