

## Recombinant Human RAGE

<b>CATALOG #:</b>	4271-10	10 µg
	4271-50	50 µg
	4271-1000	1 mg
<b>ALTERNATE NAMES:</b>	Advanced glycosylation end product-specific receptor, Receptor for advanced glycosylation end products	
<b>SOURCE:</b>	Human cells	
<b>PURITY:</b>	> 95% as determined by SEC-HPLC.	
	> 95% as determined by reducing SDS-PAGE	
<b>MOL. WEIGHT:</b>	~35.00 kDa (SDS-PAGE)	
<b>FORMULATION:</b>	Recombinant RAGE is lyophilized from a 0.2 µm filtered solution of 20 mM PB and 150 mM NaCl, pH7.2.	
<b>ENDOTOXIN CONTENT:</b>	< 0.1 ng/µg (1 IEU/µg)	

### SEQUENCE:

Recombinant human AGER/RAGE produced by transfected human cell is a secreted protein with sequence (Ala23-Ala344) of human AGER/RAGE (Uniprot Entry: Q15109) fused with a poly-histidine tag at the C-terminus.

### RECONSTITUTION:

Dissolve in 1x PBS (It is not recommended to reconstitute to a final concentration less than 100 µg/ml.). After adding 1x PBS, let the tube stand at room temperature for 3 minutes to allow lyophilized protein to dissolve. Mix the solution by inverting the tube 5 times. Centrifuge to pool sample.

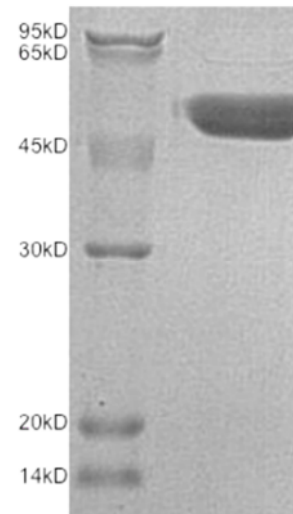
### STORAGE CONDITIONS:

Lyophilized RAGE should be stored at less than -20°C, though stable at room temperature for 3 weeks. Reconstitute protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at less than -20°C for 3 months. Avoid repeated freeze thaw cycles.

**FOR RESEARCH USE ONLY! Not to be used on humans**

### DESCRIPTION:

Advanced glycosylation end product-specific receptor, also known as receptor for advanced glycosylation end products, AGER and RAGE, belongs to the immunoglobulin superfamily of cell surface molecules. It lies within the major histocompatibility complex (MHC) class III region on chromosome 6. Besides AGEs, AGER is also able to bind other ligands which is thought to result in pro-inflammatory gene activation. It is known that AGER serves as a mediator of both acute and chronic vascular inflammation in certain conditions such as atherosclerosis and in particular as a complication of diabetes. Furthermore, it plays an important role in regulating the production/expression of TNF-alpha, oxidative stress, and endothelial dysfunction in type 2 diabetes.



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### RELATED PRODUCTS:

- TNF-alpha, human recombinant (Cat. No. 1050-10, 50, 1000)
- TNF-alpha, murine recombinant (Cat. No. 1051-10, 50, 1000)
- TNF-alpha, rat recombinant (Cat. No. 1052-10, 50, 1000)
- TNF-beta, human recombinant (Cat. No. 4345-20)
- sTNF-RI, human recombinant (Cat. No. 4348-20)