

## AGER Protein, Human (HEK293, His)

Cat. No.:	HY-P7467
Synonyms:	rHuAGER, His; RAGE; AGER
Species:	Human
Source:	HEK293
Accession:	Q15109 (A23-A344)
Gene ID:	177
Molecular Weight:	Approximately 55.0 kDa

### PROPERTIES

#### AA Sequence

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A Q N I T A R I G E   P L V L K C K G A P   K K P P Q R L E W K   L N T G R T E A W K
V L S P Q G G G P W   D S V A R V L P N G   S L F L P A V G I Q   D E G I F R C Q A M
N R N G K E T K S N   Y R V R V Y Q I P G   K P E I V D S A S E   L T A G V P N K V G
T C V S E G S Y P A   G T L S W H L D G K   P L V P N E K G V S   V K E Q T R R H P E
T G L F T L Q S E L   M V T P A R G G D P   R P T F S C S F S P   G L P R H R A L R T
A P I Q P R V W E P   V P L E E V Q L V V   E P E G G A V A P G   G T V T L T C E V P
A Q P S P Q I H W M   K D G V P L P L P P   S P V L I L P E I G   P Q D Q G T Y S C V
A T H S S H G P Q E   S R A V S I S I I E   P G E E G P T A G S   V G G S G L G T L A
L A H H H H H H
  
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#### Appearance

Lyophilized powder.

#### Formulation

Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.

#### Endotoxin Level

<1 EU/µg, determined by LAL method.

#### Reconstitution

It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH<sub>2</sub>O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).

#### Storage & Stability

Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.

#### Shipping

Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

#### Background

AGER (Advanced glycosylation end product-specific receptor), a member of the immunoglobulin superfamily of cell surface molecules, is a transmembrane signal transduction receptor with a number of ligands, including alarmins that can initiate and perpetuate immune responses. AGER naturally exists in two forms that are full-length membrane-bound and truncated

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(soluble). The human AGER is a highly polymorphic gene with more than 190 SNPs mapped to its locus on the 6p21.3 chromosome. AGER interacts with a broad spectrum of ligands and multiple signaling pathways, such as those activated by the high mobility group box 1 (HMGB1) protein (a non-canonical ligand of AGER). AGER serve as a mediator of both acute and chronic vascular inflammation in certain conditions such as atherosclerosis and in particular as a complication of diabetes<sup>[1][2]</sup>.

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## REFERENCES

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[1]. Biroš E, et al. Association between the Advanced Glycosylation End Product-Specific Receptor Gene and Cardiovascular Death in Older Men. PLoS One. 2015 Jul 30;10(7):e0134475.

[2]. Zee RY, et al. Polymorphisms in the advanced glycosylation end product-specific receptor gene and risk of incident myocardial infarction or ischemic stroke. Stroke. 2006 Jul;37(7):1686-90.

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**Caution: Product has not been fully validated for medical applications. For research use only.**

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