

# Human AGER Protein, Ultra Low Endotoxin

Cat. No. AER-HM101-UL

## Description

<b>Source</b>	Recombinant Human AGER Protein is expressed from HEK293 with His tag at the C-Terminus. It contains Ala23- Ala344.
<b>Accession</b>	Q15109-1
<b>Molecular Weight</b>	The protein has a predicted MW of 35.3 kDa. Due to glycosylation, the protein migrates to 50-60 kDa based on Bis-Tris PAGE result.
<b>Endotoxin</b>	Less than 0.01 EU per µg by the LAL method.
<b>Purity</b>	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

## Formulation and Storage

<b>Formulation</b>	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
<b>Reconstitution</b>	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
<b>Storage</b>	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3 months after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

## Background

The receptor for advanced glycation end products (AGER) is an oncogenic transmembranous receptor up-regulated in various human cancers. AGER promotes proliferation, migration, and inhibits apoptosis of squamous cervical cancer and might function as a tumor promoter in cervical cancer. Our study provides novel evidence for a potential role of AGER in bridging human papillomavirus (HPV)-induced inflammation and cervical cancer.

## Assay Data

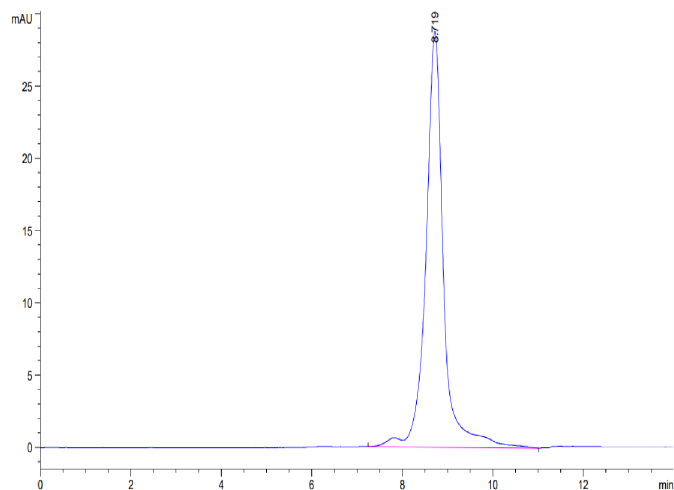
### Bis-Tris PAGE



Human AGER on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

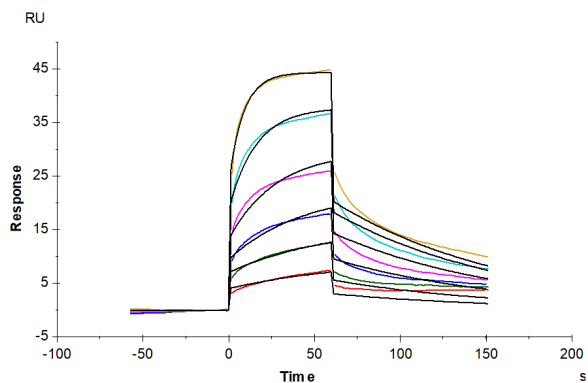
### SEC-HPLC

Assay Data



The purity of Human AGER is greater than 95% as determined by SEC-HPLC.

SPR Data



Human AGER, His Tag immobilized on CM5 Chip can bind Human HMGB1, His Tag with an affinity constant of 0.19  $\mu\text{M}$  as determined in SPR assay (Biacore T200).