# Human RAGE / AGER Protein, His Tag

Catalog # AGR-H52H3

## Synonyms

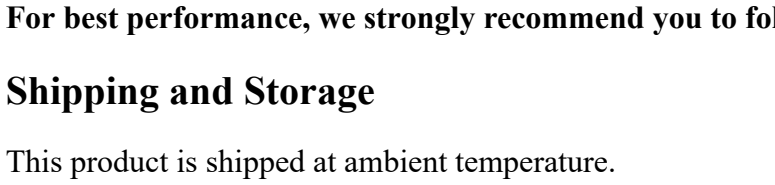
AGER, RAGE

## Source

Human RAGE Protein, His Tag (AGR-H52H3) is expressed from human 293 cells (HEK293). It contains AA Ala 23 - Ala 344 (Accession # Q15109-1).

Predicted N-terminus: Ala 23

## Molecular Characterization




This protein carries a polyhistidine tag at the C-terminus.

The protein has a calculated MW of 36.1 kDa. The protein migrates as 45-55 kDa when calibrated against Star Ribbon Pre-stained Protein Marker under reducing (R) condition (SDS-PAGE) due to glycosylation.

## Endotoxin

Less than 1.0 EU per μg by the LAL method / rFC method.

## Purity

>90% as determined by SDS-PAGE.

## Formulation

Lyophilized from 0.22 μm filtered solution in PBS, pH7.4 with trehalose as protectant.

Contact us for customized product form or formulation.

## Reconstitution

Please see Certificate of Analysis for specific instructions.

**For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.**

## Shipping and Storage

This product is shipped at ambient temperature.

For long term storage, the product should be stored at lyophilized state at -20°C or lower.

**Please avoid repeated freeze-thaw cycles.**

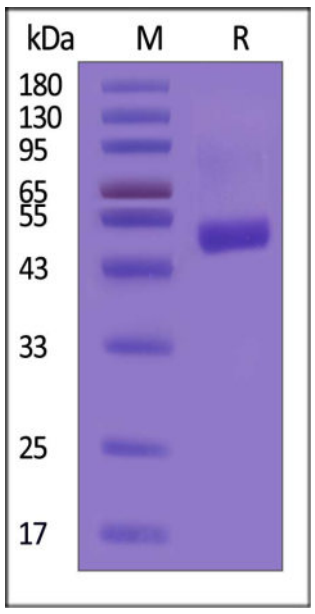
This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

## ACRO Quality Management System

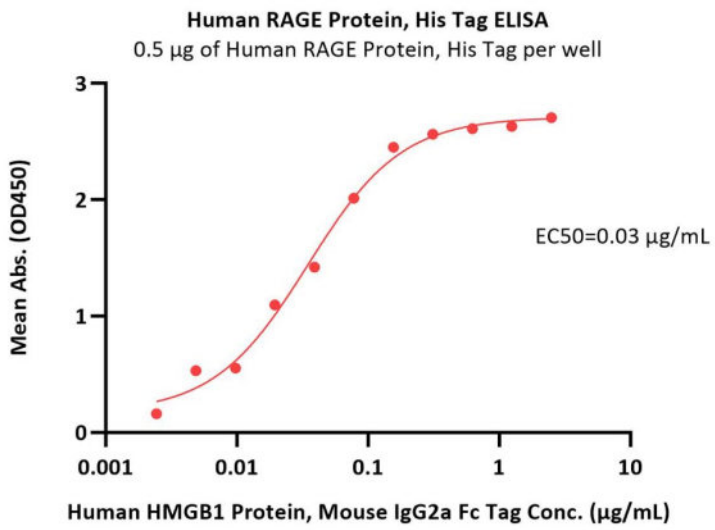
- QMS(ISO, GMP)
- Quality Advantages
- Quality Control Process

## SDS-PAGE




Human RAGE Protein, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90% (With Star Ribbon Pre-stained Protein Marker).

## Activity-ELISA




Immobilized Human RAGE Protein, His Tag (Cat. No. AGR-H52H3) at 5 μg/mL (100 μL/well) can bind Human HMGB1 Protein, Mouse IgG2a Fc Tag (Cat. No. HM1-H5255) with a linear range of 0.002-0.078 μg/mL (QC tested).

## Background

The receptor for advanced glycation end-products (RAGE) is a cell surface transmembrane multiligand receptor, encoded by the AGER gene. RAGE presents many transcripts, is expressed mainly in the lung, and involves multiple pathways (such as NFκB, Akt, p38, and MAP kinases) that initiate and perpetuate an unfavorable proinflammatory state.