

Synonyms

AGER, RAGE

Source

Human RAGE (23-344) Protein, Fc Tag (AGR-H5254) is expressed from human 293 cells (HEK293). It contains AA Ala 23 - Ala 344 (Accession # [Q15109-1](#)).

Predicted N-terminus: Ala 23

Molecular Characterization

RAGE (Ala 23 - Ala 344) Q15109-1	Fc (Pro 100 - Lys 330) P01857-1
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This protein carries a human IgG1 Fc tag at the C-terminus.

The protein has a calculated MW of 60.6 kDa. The protein migrates as 66-80 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.

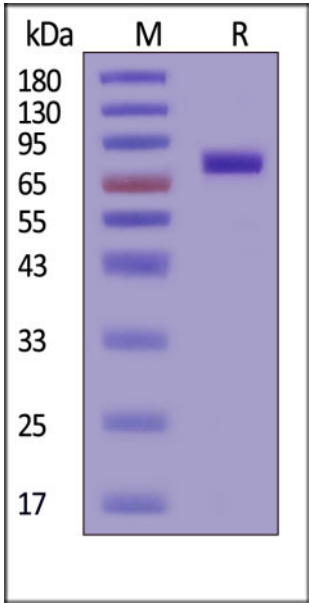
This product is stable after storage at:

- -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

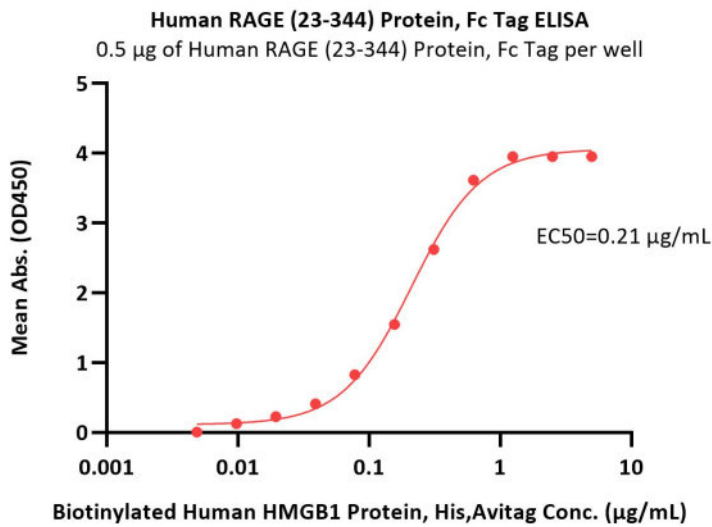
- [QMS\(ISO, GMP\)](#)
- [Quality Advantages](#)
- [Quality Control Process](#)

SDS-PAGE

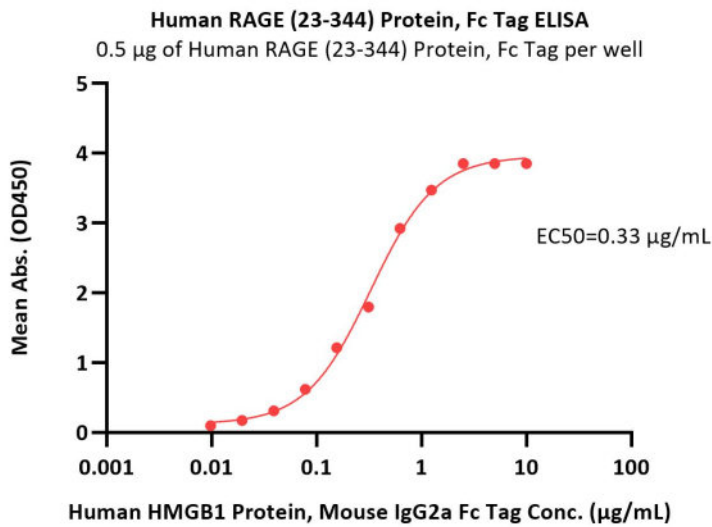


Human RAGE (23-344) Protein, Fc Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90% (With [Star Ribbon Pre-stained Protein Marker](#)).

Activity-ELISA



Immobilized Human RAGE (23-344) Protein, Fc Tag (Cat. No. AGR-H5254) at 5 µg/mL (100 µL/well) can bind Biotinylated Human HMGB1 Protein, His,Avitag (Cat. No. HM1-H82E3) with a linear range of 0.005-0.625 µg/mL (QC tested).



Immobilized Human RAGE (23-344) Protein, Fc Tag (Cat. No. AGR-H5254) 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 0.01-0.625 µg/mL (Routinely 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.



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