For Research Use Only

Recombinant Rat AGER/RAGE protein (His Tag)

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Catalog Number: Eg1135

Basic Information

Species: Rat

Purity: >90 %, SDS-PAGE

Tag: His Tag

Technical Specifications

Purity:
>90 %, SDS-PAGE

Endotoxin Level:
<0.1 EU/ μg protein, LAL method

Source:
HEK293-derived Rat AGER protein Gly23-Leu341 (Accession# Q63495) with a His tag at the C-terminus.

GeneID:
81722

Accession:
Q63495

Predicted Molecular Mass:
34.9 kDa

SDS-PAGE:
40-45 kDa, reducing (R) conditions

Formulation:
Lyophilized from 0.22 μm filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.

Biological Activity

Not tested

Storage and Shipping

Storage:
It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

- Until expiry date, -20℃ to -80℃ as lyophilized proteins.
- 3 months, -20℃ to -80℃ under sterile conditions after reconstitution.

Shipping:
The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.

Reconstitution

Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.

Background

Advanced glycosylation end product-specific receptor (AGER, also known as RAGE) is a member of the immunoglobulin superfamily of cell surface receptors, which interacts with distinct families of ligands, mediating diverse functions in a broad array of cell types including cellular migration, proliferation, survival and apoptosis. It senses endogenous stress signals with a broad ligand repertoire including advanced glycation end products, S100 proteins, high-mobility group box 1 protein/HMGB1, amyloid beta/APP oligomers, nucleic acids, phospholipids and glycosaminoglycans. It interacts with distinct molecules implicated in homeostasis, development, inflammation, and certain diseases such as diabetes and Alzheimer's disease.

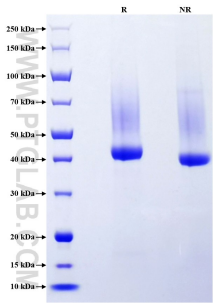
References

1.Donato, R. et al. (2003) MICROSC RES TECHNIQ. 60(6):540-51.
2.Yan, SF.et al. (2007) CURR DIABETES REP. 7(2):146-53.
3.Tsoporis, JN. et al. (2010) CIRC RES. 106(1):93-101.
4.Xie, Y. et al. (2017) MOL MED REP. 16(2):1691-1700.
5.Daffu, G. et al. (2015) DIABETES. 64(12):4046-60.

Synonyms

AGER, RAGE, Advanced glycosylation end product-specific receptor

Selected Validation Data



Purity of Recombinant Rat AGER was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) and non-reducing (NR) conditions and stained using Coomassie blue.