

For Research Use Only

Recombinant Mouse S100A8 protein (rFc Tag)



Catalog Number: Eg2959

Basic Information

Species:
Mouse

Purity:
>90 %, SDS-PAGE

Tag:
rFc Tag

Technical Specifications

Purity:

>90 %, SDS-PAGE

Endotoxin Level:

<0.1 EU/ μ g protein, LAL method

Source:

HEK293-derived Mouse S100A8 protein Pro2-Glu89 (Accession# P27005) with a rabbit IgG Fc tag at the C-terminus.

GeneID:

20201

Accession:

P27005

Predicted Molecular Mass:

35.7 kDa

SDS-PAGE:

37-47 kDa, reducing (R) conditions

Formulation:

Lyophilized from 0.22 μ m 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°C to -80°C as lyophilized proteins.
- 3 months, -20°C to -80°C 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

S100A8 is a member of the S100 family of proteins containing 2 EF-hand calcium-binding motifs. S100 proteins are localized in the cytoplasm and/or nucleus of a wide range of cells, and involved in the regulation of a number of cellular processes such as cell cycle progression and differentiation. S100 genes include at least 13 members which are located as a cluster on chromosome 1q21. This protein may function in the inhibition of casein kinase and as a cytokine. S100A8 may form homodimer or heterodimer with S100A9(16216873).

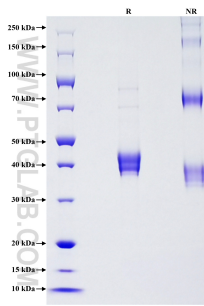
References

1. Li Y, Chen B, et al. (2019) *Circulation*. 140(9):751-764.
2. Tousif S, Singh AP, et al. (2023) *Circ Res*. 132(3):267-289.
3. Cho E, Mun SJ, et al. (2024) *Acta Pharmacol Sin*. 45(3):581-593.
4. Guo Q, Zhao Y, et al. (2021) *Cell Host Microbe*. 29(2):222-235.e4.

Synonyms

Caga, Calgranulin-A, Chemotactic cytokine CP-10, Leukocyte L1 complex light chain, Migration inhibitory factor-related protein 8

Selected Validation Data



Purity of Recombinant Mouse S100A8 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.

For technical support and original validation data for this product please contact

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