

For Research Use Only

Recombinant Mouse Timd4 protein (rFc Tag)



Catalog Number: Eg3307

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 Timd4 protein Ala23-Thr279 (Accession# Q6U7R4) with a rabbit IgG Fc tag at the C-terminus.

GeneID:

276891

Accession:

Q6U7R4

Predicted Molecular Mass:

51.1 kDa

SDS-PAGE:

72-95 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

T cell immunoglobulin mucin 4 (Tim4), a macrophage receptor for phosphatidylserine (PtdSer) on apoptotic cells. It is evidenced that TIMD-4 as phosphatidylserine (PS) receptor is capable of maintaining peritoneal macrophages' homeostatic function and regulating adaptive immunity based on the alteration of Ag-particular T cells' clearance. It is noteworthy that TIMD-4's dysregulating process was identified under several autoimmune states, in particular inside immune cells. In addition, TIMD-4 was identified to be over-expressed in Systemic lupus erythematosus (SLE) cases.

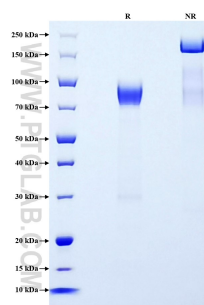
References

1. Kuroiwa Miki, et al. (2023) Sci Total Environ. 875 : 162586.
2. Yang Zhicheng, et al. (2021) Pharmacogenomics Pers Med. 14:221-228.

Synonyms

SMUCKLER, Spleen, mucin-containing, knockout of lymphotoxin protein, T-cell immunoglobulin and mucin domain-containing protein 4, T-cell immunoglobulin mucin receptor 4, T-cell membrane protein 4

Selected Validation Data



Purity of Recombinant Mouse Timd4 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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