

For Research Use Only

Recombinant Mouse Dectin-1 protein (rFc Tag)(HPLC verified)



Catalog Number: Eg2676

Basic Information

Species:
Mouse

Purity:
>90 %, SDS-PAGE
 >90%, SEC-HPLC

Tag:
rFc Tag

Technical Specifications

Purity:
>90 %, SDS-PAGE
 >90%, SEC-HPLC

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

Source:
HEK293-derived Mouse Dectin-1 protein Gly71-Leu244 (Accession# Q6QLQ4) with a rabbit IgG Fc tag at the C-terminus.

GeneID:
56644

Accession:
Q6QLQ4

Predicted Molecular Mass:
45.8 kDa

SDS-PAGE:
48-60 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°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

C-type lectin structural domain family 7 member A (Clec7a), also known as Dectin-1, is a transmembrane protein containing an intracellular immune receptor tyrosine-based activation (ITAM)-like motif and an extracellular C-type lectin-like structural domain for recognition. Clec7a has important roles in the innate immune system, particularly in the recognition of β-glucans. Studies have revealed potential links between Clec7a and a variety of biological processes such as immune homeostasis, autoimmunity, allergy, and cancer. Clec7a regulates phagocytosis by macrophages in a variety of peripheral tissues. Clec7a is upregulated in microglial cells during neurodegeneration and is an important receptor for microglial cell activation in response to AD pathology. (PMID: 39088351)

References

1. Wan H, et al. (2024). Adv Sci (Weinh). 11(36):e2403064.
2. Wang J, et al. (2024). Front Immunol. 15:1361351.

3. Wang \

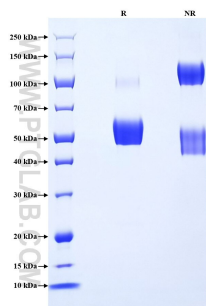
Synonyms

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

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA) E: proteintech@ptglab.com W: ptglab.com

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Selected Validation Data



Purity of Recombinant Mouse Dectin-1 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.