

For Research Use Only

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



Catalog Number: Eg1344

Basic Information

Species:
Human

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 Human Dectin-1 protein Thr66-Met247 (Accession# Q9BXN2-1) with a rabbit IgG Fc tag at the N-terminus.

GeneID:
64581

Accession:
Q9BXN2-1

Predicted Molecular Mass:
47.7 kDa

SDS-PAGE:
50-65 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

Dectin-1, also known as CLEC7A or CD369, is a type II membrane receptor consisting of an extracellular C-terminal C-type lectin domain, a short stalk region, a single transmembrane domain and a short N-terminal cytoplasmic tail, which contains an immunoreceptor tyrosine-based activation motif. Dectin-1 is expressed on monocytes, macrophages, neutrophils, dendritic cells and a subpopulation of T cells. Dectin-1 plays a role in the innate immune response. It functions as a pattern-recognition receptor and recognizes a variety of β-glucans from fungi, plants and bacteria. Dectin-1 may also participate in orchestrating the adaptive immune response.

References

1. K Ariizumi, et al. (2000) J Biol Chem. 275(26):20157-67.
2. Guo Yang, et al. (2011) DNA Cell Biol. 30(12):1069-71.
3. Philip R Taylor, et al. (2002) J Immunol. 169(7):3876-82.

Synonyms

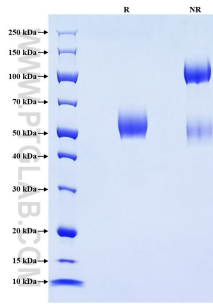
CLEC7A, Beta glucan receptor, Beta-glucan receptor, BGR, CD369

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

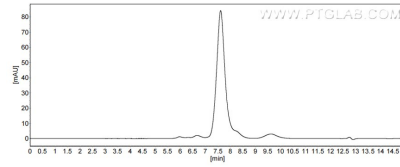
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Selected Validation Data



Purity of Recombinant Human 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.



The purity of Human Dectin-1 was greater than 90% as determined by SEC-HPLC.