

For Research Use Only

Recombinant Human CLEC12A/MICL protein (His Tag)



Catalog Number: Eg0024

Basic Information

Species:
Human

Purity:
>90 %, SDS-PAGE

Tag:
His Tag

Technical Specifications

Purity:

>90 %, SDS-PAGE

Endotoxin Level:

<0.1 EU/ μ g protein, LAL method

Source:

HEK293-derived Human CLEC12A protein His65-Ala265 (Accession# XP_054227196.1) with a His tag at the N-terminus.

GeneID:

160364

Accession:

XP_054227196.1

Predicted Molecular Mass:

24.5 kDa

SDS-PAGE:

35-50 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

CLEC12A, also known as CD371, MICL, DCAL-2 or CLL-1, is a type II transmembrane glycoprotein and a member of the C-type lectin superfamily. This protein, which contains a single C-type lectin-like domain and a cytoplasmic immunoreceptor tyrosine-based inhibitory motif (ITIM), is related to LOX-1 and Dectin-1 and is variably spliced and highly N-glycosylated. Its ITIM sequence recruits the tyrosine phosphatases SHP-1 and SHP-2 to negatively regulate Syk signaling. In humans, CLEC12A is mainly expressed on myeloid cells, being found on monocytes, granulocytes, macrophages and DC subsets, and at lower levels on CD4+ T cells.

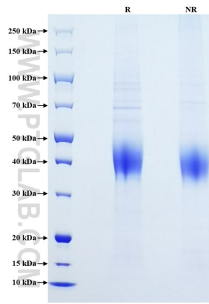
References

1. Linde M Morsink, et al. (2019) Blood Rev. 34:26-33.
2. Andrew SJ Marshall, et al. (2004) J Biol Chem. 279(15):14792-802.
3. Belén Álvarez, et al. (2020) Front Immunol. 13:11:863.

Synonyms

CLEC12A,C type lectin like molecule 1,CD371,CLL 1,

Selected Validation Data



Purity of Recombinant Human CLEC12A 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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