

Human CLEC4D / CLECSF8 Protein (His Tag)



Sino Biological Inc.
Biological Solution Specialist

Catalog Number: 11485-H07H

General Information

Gene Name Synonym:

CLEC-6; CLEC6; CLECSF8; MCL; MPCL; Clecsf8; mcl; Mpcl

Protein Construction:

A DNA sequence encoding the human CLEC4D (NP_525126.2) extracellular domain (Gly 52-Asn 215) was expressed, with a polyhistidine tag at the N-terminus.

Source: Human

Expression Host: Human Cells

QC Testing

Purity: > 92 % as determined by SDS-PAGE

Endotoxin:

< 1.0 EU per µg of the protein as determined by the LAL method

Stability:

Samples are stable for up to twelve months from date of receipt at -70 °C

Predicted N terminal: His

Molecular Mass:

The recombinant human CLEC4D consists of 180 amino acids and has a calculated molecular mass of 21.2 kDa. In SDS-PAGE under reducing conditions, rhCLEC4D migrates as several bands with apparent molecular mass of 21-27 kDa due to different glycosylation.

Formulation:

Lyophilized from sterile PBS, pH 7.4

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

Usage Guide

Storage:

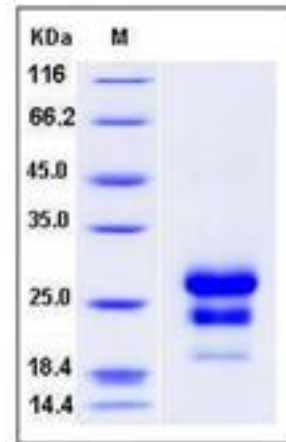
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:

Detailed reconstitution instructions are sent along with the products.

SDS-PAGE:



Protein Description

C-type lectin (CLEC) family is a type of carbohydrate-binding protein domain named lectin. C-type lectins are the most diverse and prevalent lectin family in immunity with its requirement for calcium for binding. Proteins including a C-type lectin domain have diverse range of functions including cell-cell adhesion, immune response to pathogens and apoptosis. There are at least 14 types of C-type lectins: type I to type XIV. CLEC4D(CLECSF8) is a type II membrane glycoprotein belonging to the C-type lectin family, with restricted expression in the monocyte/macrophage lineage. It plays important roles in the function of macrophages.

References

1. Johnson KD, *et al.* (2007) Friend of GATA-1-independent Transcriptional Repression: A Novel Mode of GATA-1 Function. *Blood*. 109 (12): 5230-3.
2. Arce I, *et al.* (2004) The human C-type lectin CLECSF8 is a novel monocyte/macrophage endocytic receptor. *Eur J Immunol*. 34 (1): 210-20.
3. Marshall AS, *et al.* (2006) Human M1CL (CLEC12A) is differentially glycosylated and is down-regulated following cellular activation. *Eur J Immunol*. 36 (8): 2159-69.

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