

Rat CLEC1A / CLEC-1 Protein (Fc Tag)

Catalog Number: 80212-R01H



Sino Biological Inc.

Biological Solution Specialist

General Information

Gene Name Synonym:

CLEC-1; CLEC1; 5930406N14Rik

Protein Construction:

A DNA sequence encoding the rat CLEC1A (D3ZGU3) (Gln73-Gln269) was expressed, fused with Fc region of human IgG1 at the N-terminus.

Source: Rat

Expression Host: Human Cells

QC Testing

Purity: > 90 % 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: Glu

Molecular Mass:

The recombinant rat CLEC1A comprises 457 amino acids and predicts a molecular mass of 51.6 kDa.

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:

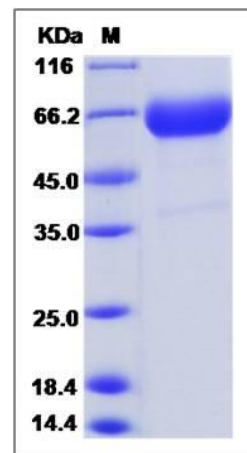
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:

Detailed reconstitution instructions are sent along with the products.

SDS-PAGE:



Protein Description

CLEC1A, also known as CLEC-1, is a member of the C-type lectin/C-type lectin-like domain (CTL/CTLD) superfamily. Members of this family share a common protein fold and have diverse functions, such as cell adhesion, cell-cell signalling, glycoprotein turnover, and roles in inflammation and immune response. CLEC1A contains 1 C-type lectin domain and is expressed preferentially in dendritic cells. It may play a role in regulating dendritic cell function. CLEC1A gene is closely linked to other CTL/CTLD superfamily members on chromosome 12p13 in the natural killer gene complex region. Alternative splice variants have been described but their biological nature has not been determined. CLEC1A is found to be not only expressed in dendritic cells, but also in endothelial cells and in the latter aspect resembles the LOX-1 gene.

References

- 1.Ebner S, *et al.* (2003) Evolutionary analysis reveals collective properties and specificity in the C-type lectin and lectin-like domain superfamily. *Proteins*. 53(1):44-55.
- 2.Strausberg RL, *et al.* (2003) Generation and initial analysis of more than 15,000 full-length human and mouse cDNA sequences. *Proc Natl Acad Sci*. 99(26):16899-903.
- 3.Drickamer K. (1999) C-type lectin-like domains. *Curr Opin Struct Biol*. 9(5):585-90.

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