

Mouse CLEC5A / MDL-1 Protein, His Tag (MALS & SPR verified)

Catalog # CLA-M5243



Synonyms

CLEC5A, CLECSF5, superfamily member 5, C-type lectin domain family 5, member A, MDL1, MDL-1, DAP12-associating lectin 1

Source

Mouse CLEC5A Protein, His Tag (CLA-M5243) is expressed from human 293 cells (HEK293). It contains AA Tyr 26 - Lys 190 (Accession # [Q9R007-3](#)).

Predicted N-terminus: His

Molecular Characterization

Poly-his	CLEC5A(Tyr 26 - Lys 190) Q9R007-3
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This protein carries a polyhistidine tag at the N-terminus.

The protein has a calculated MW of 39.9 kDa. The protein migrates as 53-75 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE) due to glycosylation.

Endotoxin

Less than 1.0 EU per µg by the LAL method / rFC method.

Purity

>90% as determined by SDS-PAGE.

>95% as determined by SEC-MALS.

Formulation

Lyophilized from 0.22 µm filtered solution in PBS, pH7.4 with trehalose as protectant.

Contact us for customized product form or formulation.

Reconstitution

Please see Certificate of Analysis for specific instructions.

For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.

Shipping and Storage

This product is shipped at ambient temperature.

For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

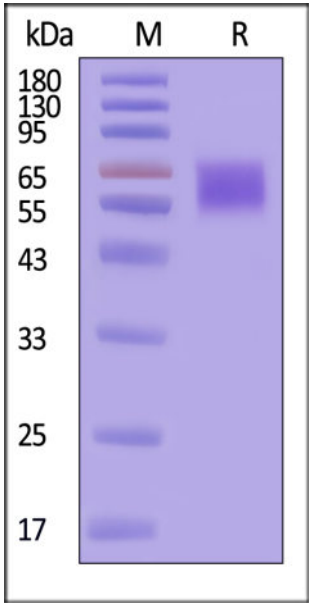
This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

ACRO Quality Management System

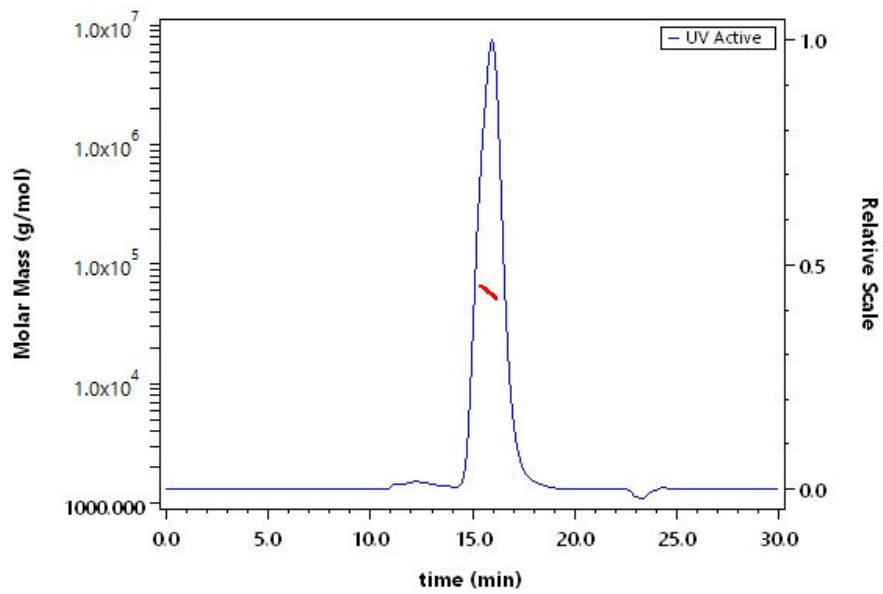
- [QMS\(ISO, GMP\)](#).
- [Quality Advantages](#)
- [Quality Control Process](#)

SDS-PAGE



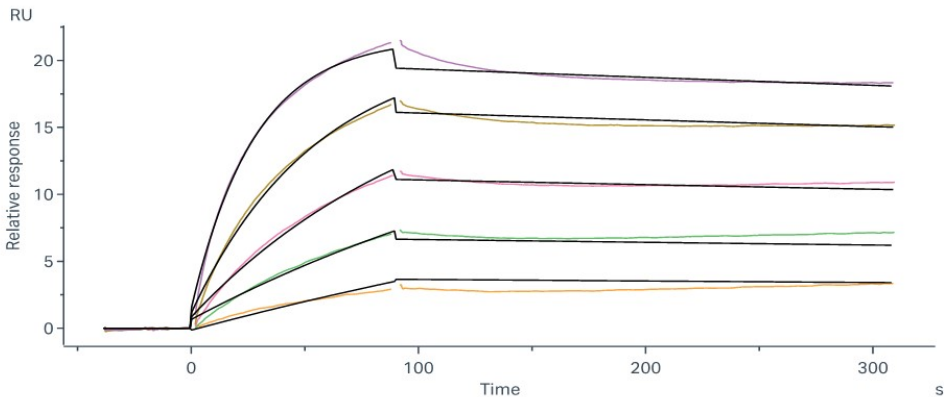
Mouse CLEC5A Protein, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90% (With [Star Ribbon Pre-stained Protein Marker](#)).

SEC-MALS



The purity of Mouse CLEC5A Protein, His Tag (Cat. No. CLA-M5243) is more than 95% and the molecular weight of this protein is around 45-65 kDa verified by SEC-MALS.

Bioactivity-SPR



Recombinant Human Galectin-9 Protein, CF (E.Coli) immobilized on CM5 Chip can bind Mouse CLEC5A Protein, His Tag (Cat. No. CLA-M5243) with an affinity constant of 0.159 nM as determined in a SPR assay (Biacore 8K) (QC tested).

Background

CLEC5A, also known as MDL1 and MDL-1, is a member of the C-type lectin/C-type lectin-like domain (CTL/CTLD) superfamily. CLEC5A is expressed on monocytes, macrophages, and neutrophils. Its expression is up-regulated on monocytes in rheumatoid arthritis. CLEC5A with dnax-activation protein 12 and may play a role in cell activation. It also functions as a positive regulator of osteoclastogenesis. CLEC5A acts as a key regulator of synovial injury and bone erosion during autoimmune joint inflammation. The binding of dengue virus to CLEC5A triggers signaling through the phosphorylation of TYROBP, this interaction does not result in viral entry, but stimulates proinflammatory cytokine release.



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