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# Recombinant Human CD301 Protein

**Catalog No.: RP00207** Recombinant

## Sequence Information

| Species | Gene ID | Swiss Prot |
|---|---|---|
| Human | 10462 | Q8IUN9 |

**Tags**
C-His

**Synonyms**
CLEC10A;CD301;CLECSF13;CLECSF14;HML;HML2;MGL

## Product Information

| Source | Purification |
|---|---|
| HEK293 cells | ≥ 90 % as determined by SDS-PAGE. |

| Calculated MW | Observed MW |
|---|---|
| 29.61 kDa | Approximately 40 kDa |

**Endotoxin**
< 1 EU/μg of the protein by LAL method.

**Formulation**
Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.Contact us for customized product form or formulation.

**Reconstitution**
Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

## Contact


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## Background

CLEC10A, also known as macrophage galactose/N-acetyl-galactosamine (GalNAc) specific lectin (MGL), CD301, DC-ASGPR, and HML, is a 40 kDa type II transmembrane glycoprotein that belongs to the C-type lectin family. C-type lectin 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. CLEC10A is expressed on macrophages and related cells of myeloid origins, particularly immature dendritic cells (DCs). CLEC10A plays a protective role against colitis by effectively inducing IL-10 production by colonic lamina propria macrophages in response to invading commensal bacteria.

## Basic Information

**Description**
Recombinant Human CD301 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Gln61-His316) of human CLEC10A/MGL1/CD301 (Accession #NP_878910.1) fused with a 6×His tag at the C-terminus.

**Bio-Activity**

**Shipping**
The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

**Storage**
Store at -20℃.Store the lyophilized protein at -20℃ to -80 ℃ up to 1 year from the date of receipt.
After reconstitution, the protein solution is stable at -20℃ for 3 months, at 2-8℃ for up to 1 week.
Avoid repeated freeze/thaw cycles.

**Operational Notes**
For your safety and health, please wear a lab coat and disposable gloves for handling.

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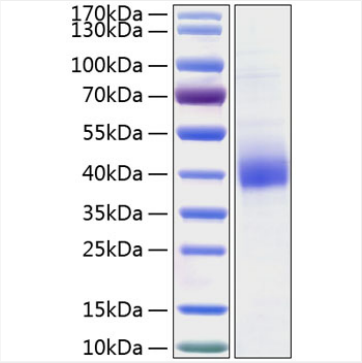
## Validation Data




Recombinant Human CD301 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.



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