

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% by SDS-PAGE.

Calculated MW	Observed MW
29.61 kDa	38-45 kDa

Endotoxin

< 1.0 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 stabilizer (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

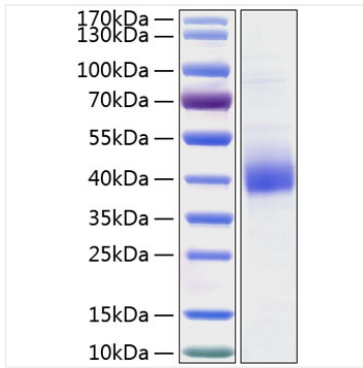
Recombinant Human CD301 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Gln61-His316) of human CLEC10A/MGL1/CD301 (Accession #NP_878910.1) fused with a 6×His tag at the C-terminus.

Bio-Activity

Storage

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

Validation Data



Recombinant Human CD301 Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 38-45 kDa.