Human CLEC4C / BDCA2 Protein, His Tag

Catalog # CLC-H5245AI

Application

Human CLEC4C Protein, His Tag AIDD-Ready protein is designed for direct use in SPR assays. It is supplied in a sugar-free, glycerol-free formulation to eliminate refractive index interference in SPR. No desalting or buffer exchange is required before use, simplifying the SPR workflow and supporting high-throughput experimental validation to accelerate the transition from AI prediction to wet-lab validation.

Features and Advantages

- **Directly compatible with SPR:** No desalting or buffer exchange required; supplied as a liquid to reduce sample preparation and improve experimental efficiency.
- **High batch-to-batch consistency:** Each lot is released using SPR QC to ensure experimental reproducibility.
- **Validated with representative drugs:** SPR binding activity is validated using representative drug antibodies to ensure suitability for drug screening and evaluation.

Synonyms

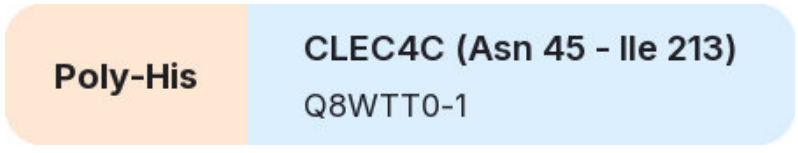
DLEC, CLEC4C, BDCA-2, CD303, CLECSF11, CLECSF7, HECL

Source

Human CLEC4C Protein, His Tag (CLC-H5245AI) is expressed from human 293 cells (HEK293). It contains AA Asn 45 - Ile 213 (Accession # Q8WTT0-1).

Predicted N-terminus: His

Molecular Characterization



This protein carries a polyhistidine tag at the N-terminus.

The protein has a calculated MW of 26.6 kDa. The protein migrates as 28-35 kDa and 55 kDa when calibrated against Star Ribbon Pre-stained Protein Marker under reducing (R) condition (SDS-PAGE) due to glycosylation.

The protein is designed as a dimer.

Purity

>90% as determined by SDS-PAGE.

>95% as determined by SEC-MALS.

Formulation

Supplied as 0.2 μm filtered solution in 10 mM HEPES, 150 mM NaCl, 1 mM EDTA, pH7.4.

Contact us for customized product form or formulation.

Shipping and Storage

This product is supplied and shipped on dry ice.

Please avoid repeated freeze-thaw cycles.

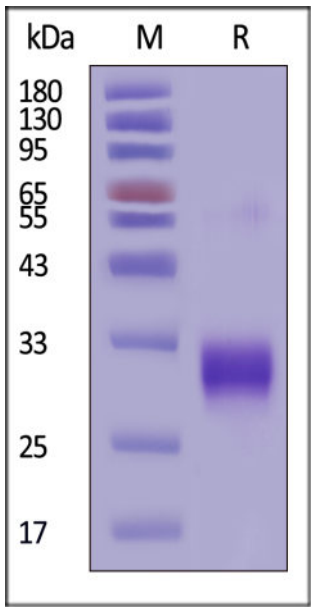
This product is stable after storage at:

- The product MUST be stored at -70°C or lower upon receipt;
- -70°C for 3 months under sterile conditions.

ACRO Quality Management System

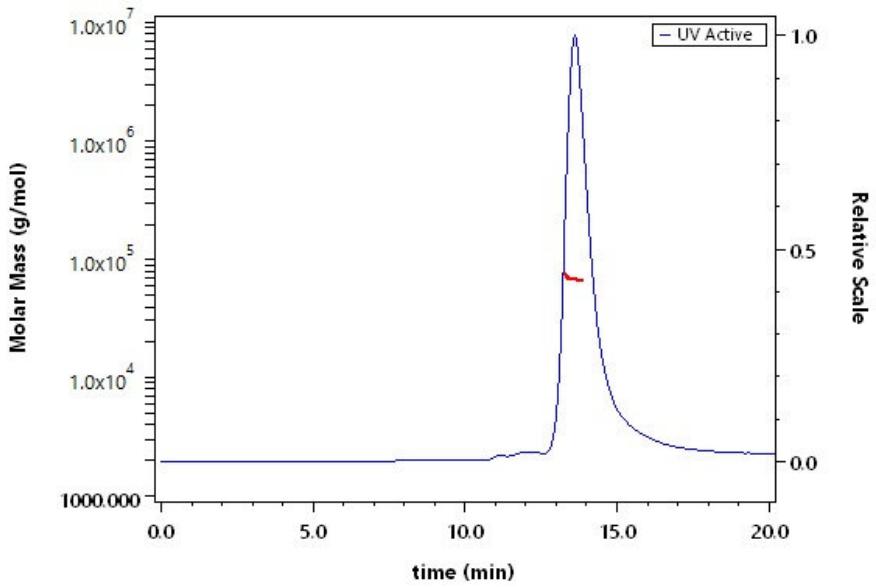
- QMS(ISO, GMP)
- Quality Advantages
- Quality Control Process

SDS-PAGE



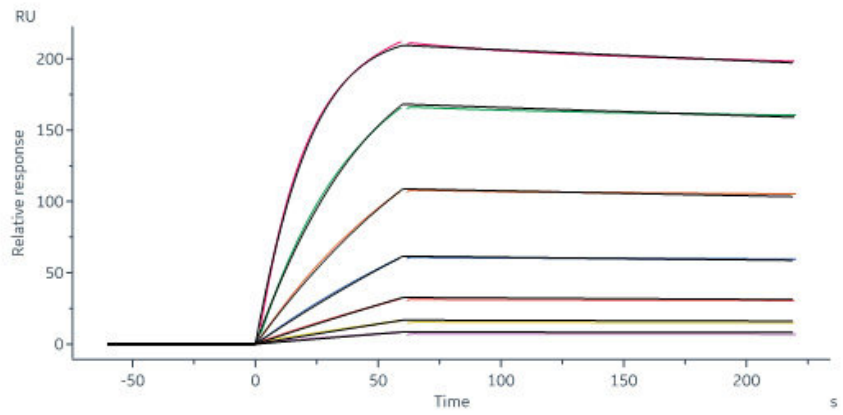
Human CLEC4C Protein, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90% (With Star Ribbon Pre-stained Protein Marker).

SEC-MALS



The purity of Human CLEC4C Protein, His Tag (Cat. No. CLC-H5245AI) is more than 95% and the molecular weight of this protein is around 55-75 kDa verified by SEC-MALS.

Activity-SPR



Litifilimab captured on Protein A Chip can bind Human CLEC4C Protein, His Tag (Cat. No. CLC-H5245AI) with an affinity constant of 1.30 nM as determined in a SPR assay (Biacore 8K) (QC tested).

Background

CLEC4C (C-type lectin domain family 4 member C), also known as BDCA2, CLECSF11, CLECSF7, DLEC and CD303. Lectin-type cell surface receptor which may play a role in antigen capturing by dendritic cell. Specifically recognizes non-sialylated galactose-terminated biantennary glycans containing the trisaccharide epitope Gal(beta1-3/4)Glcc(beta1-2)Man. Binds to serum IgG. Efficiently targets ligand into antigen-processing and peptide-loading compartments for presentation to T-cells. May mediate potent inhibition of induction of IFN-alpha/beta expression in plasmacytoid dendritic cells. May act as a signaling receptor that activates protein-tyrosine kinases and mobilizes intracellular calcium.

Discounts, Gifts, and more!