Human CD98 Protein, His Tag

Catalog # CD8-H5247AI

Application

Human CD98 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

SLC3A2, CD98, 4F2, 4F2HC, 4T2HC, CD98HC, MDU1, NACAE

Source

Human CD98 Protein, His Tag (CD8-H5247AI) is expressed from human 293 cells (HEK293). It contains AA Arg 206 - Ala 630 (Accession # P08195).

Predicted N-terminus: His

Molecular Characterization

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

The protein has a calculated MW of 47.7 kDa. The protein migrates as 55-65 kDa when calibrated against Star Ribbon Pre-stained Protein Marker under reducing (R) condition (SDS-PAGE) due to glycosylation.

Purity

>90% as determined by SDS-PAGE.

>90% as determined by SEC-MALS.

Formulation

Formulated in a proprietary trehalose-free buffer, supplied ready-to-use for SPR/BLI analysis - no buffer exchange required.

For detailed formulation, please refer to the batch-specific COA.

Shipping and Storage

This product is supplied and shipped on dry ice.

Please avoid repeated freeze-thaw cycles.

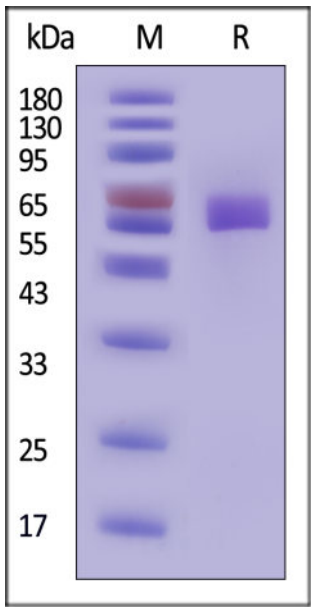
This product is stable after storage at:

- The product MUST be stored at -70°C or lower upon receipt;
- -70°C for 12 months under sterile conditions.

ACRO Quality Management System

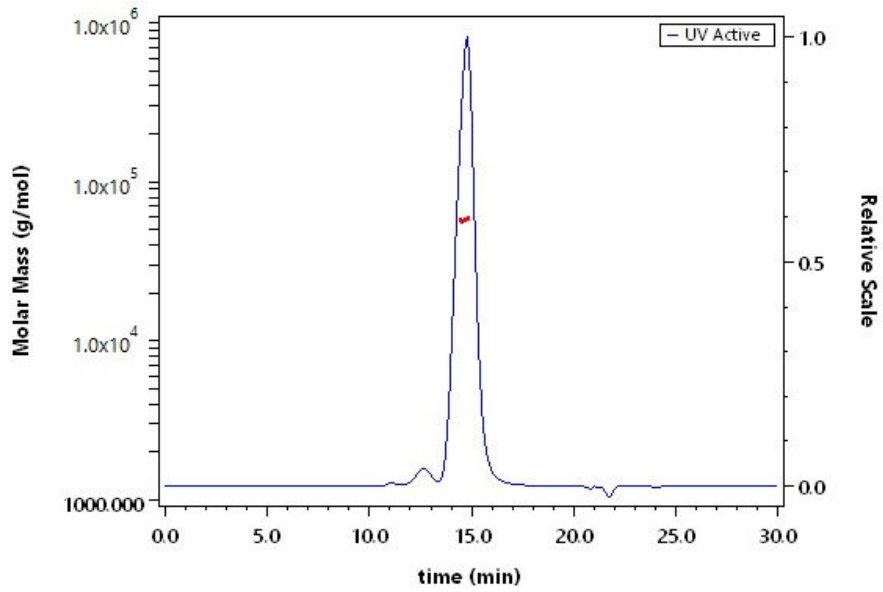
- QMS(ISO, GMP)
- Quality Advantages
- Quality Control Process

SDS-PAGE



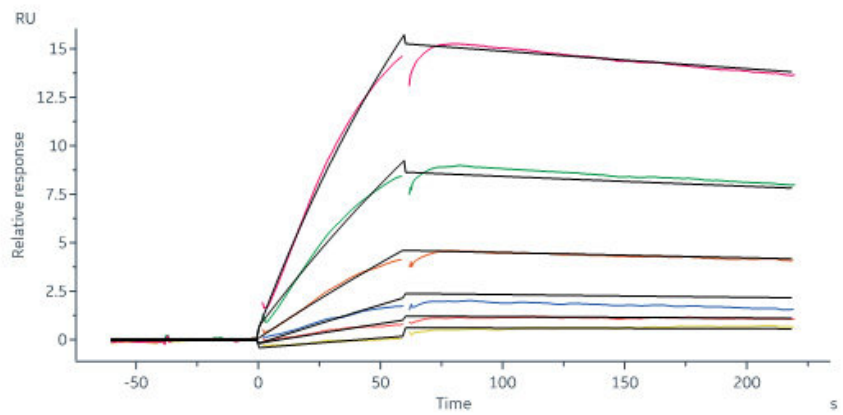
Human CD98 Protein, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90% (With Star Ribbon Pre-stained Protein Marker).

SEC-MALS



The purity of Human CD98 Protein, His Tag (Cat. No. CD8-H5247AI) is more than 90% and the molecular weight of this protein is around 50-70 kDa verified by SEC-MALS.

Activity-SPR



CD98 Recombinant Rabbit Monoclonal Antibody (065) captured on Protein G Chip can bind Human CD98 Protein, His Tag (Cat. No. CD8-H5247AI) with an affinity constant of 70.8 nM as determined in a SPR assay (Biacore 8K) (QC tested).

Background

CD antigen CD98 is also known as 4F2 cell-surface antigen heavy chain (4F2hc), 4F2 heavy chain antigen, Solute carrier family 3 member 2 (SLC3A2), Lymphocyte activation antigen 4F2 large subunit, is a single-pass type I I membrane protein which belongs to the SLC3A transporter family.. SLC3A2 / CD98 is expressed ubiquitously in all tissues tested with highest levels detected in kidney, placenta and testis and weakest level in thymus. SLC3A2 / CD98 is required for the function of light chain amino-acid transporters and also involved in sodium-independent, high-affinity transport of large neutral amino acids such as phenylalanine, tyrosine, leucine, arginine and tryptophan. CD98 involved in guiding and targeting of LAT1 and LAT2 to the plasma membrane. When associated with SLC7A5 or SLC7A8, CD98 involved in the cellular activity of small molecular weight nitrosothiols, via the stereoselective transport of L-nitrosocysteine (L-CNSO) across the transmembrane. Together with ICAM1, regulates the transport activity LAT2 in polarized intestinal cells, by generating and delivering intracellular signals.

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