

Human PCSK9 Protein, His Tag

Catalog # PC9-H5223AI



Application

Human PCSK9 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

PCSK9, FH3, HCHOLA3, LDLCQ1, NARC1, PC9

Source

Human PCSK9 Protein, His Tag (PC9-H5223AI) is expressed from human 293 cells (HEK293). It contains AA Gln 31 - Gln 692 (Accession # [Q8NBP7-1](#)).

Predicted N-terminus: Gln 31 & Ser 153

Molecular Characterization

PCSK9 (Gln 31 - Gln 692)
Q8NBP7-1

Poly-His

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

The protein has a calculated MW of 13.8 kDa & 59.2 kDa. The protein migrates as 15 kDa and 60-65 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.

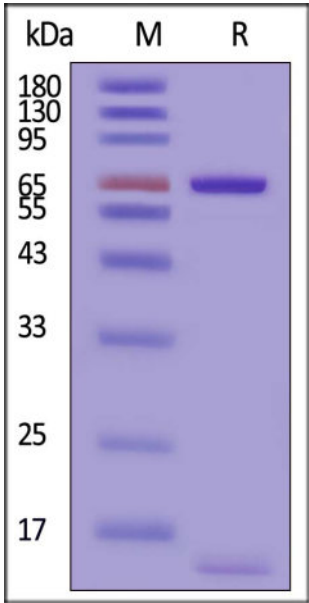
This product is stable after storage at:

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

ACRO Quality Management System

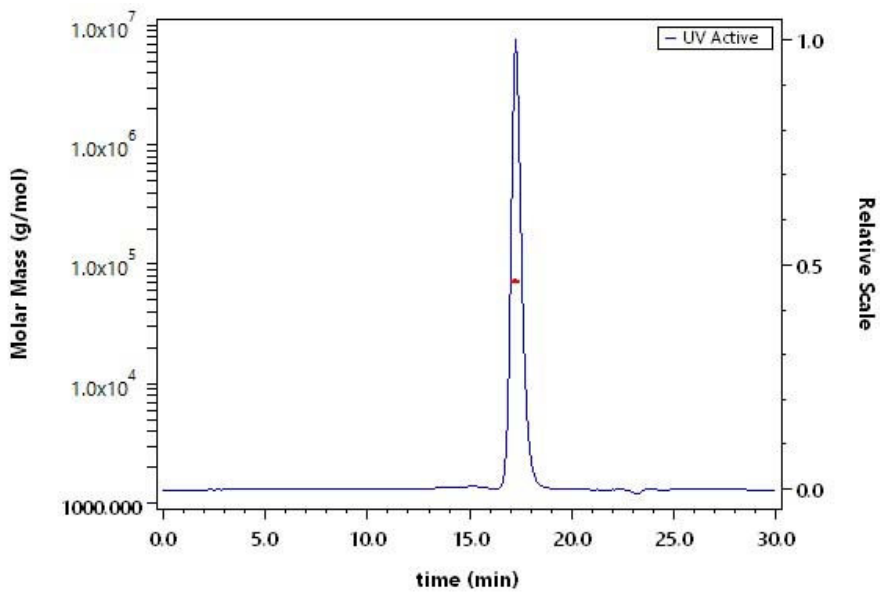
- [QMS\(ISO, GMP\)](#)
- [Quality Advantages](#)
- [Quality Control Process](#)

SDS-PAGE



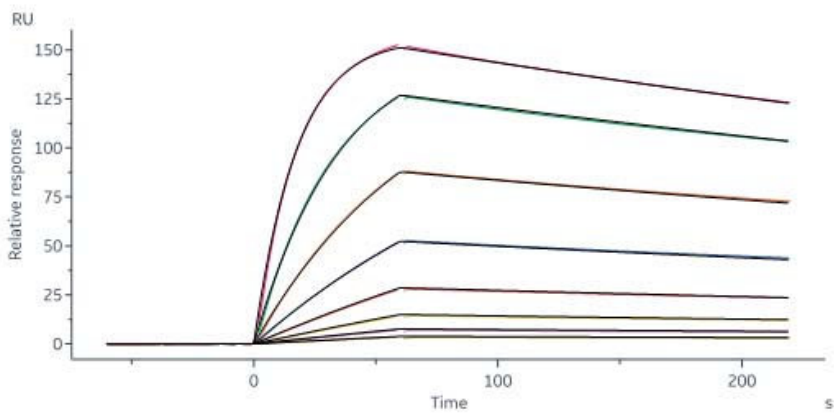
Human PCSK9 Protein, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90% (With [Star Ribbon Pre-stained Protein Marker](#)).

SEC-MALS



The purity of Human PCSK9 Protein, His Tag (Cat. No. PC9-H5223AI) is more than 90% and the molecular weight of this protein is around 70-90 kDa verified by SEC-MALS.

Activity-SPR



Recaticimab (biosimilar) captured on Protein A Chip can bind Human PCSK9 Protein, His Tag (Cat. No. PC9-H5223AI) with an affinity constant of 4.40 nM as determined in a SPR assay (Biacore 8K) (QC tested).

Background

Proprotein convertase subtilisin/kexin type 9 (PCSK9) is also known as RC1 (neural apoptosis regulated convertase), is a newly identified subtilase belonging to the peptidase S8 subfamily. Mouse PCSK9 is synthesized as a soluble zymogen, and undergoes autocatalytic intramolecular processing in the endoplasmic reticulum, resulting in the cleavage of its propeptide that remains associated with the secreted active enzyme with a broad alkaline pH optimum. This protein plays a major regulatory role in cholesterol homeostasis. PCSK9 binds to the epidermal growth factor-like repeat A (EGF-A) domain of the low-density lipoprotein receptor (LDLR), inducing LDLR degradation. PCSK9 may also have a role in the differentiation of cortical neurons. Mutations in this gene have been associated with a rare form of autosomal dominant familial hypercholesterolemia (HCHOLA3).

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