Human Semaphorin 4D / SEMA4D / CD100 Protein, His Tag (MALS verified)

Catalog # CD0-H52H7

Synonyms

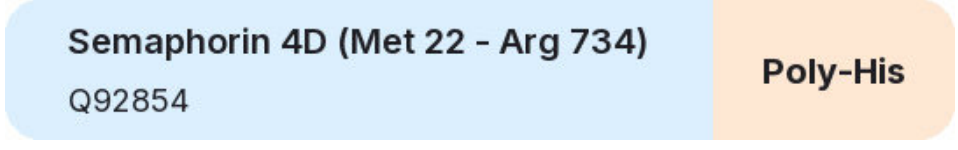
SEMA4D, C9orf164, CD100, FLJ33485, FLJ34282, FLJ39737, FLJ46484, M-sema-G, MGC169138, MGC169141, SEMAJ, coll-4, Semaphorin-4D

Source

Human Semaphorin 4D Protein, His Tag (CD0-H52H7) is expressed from human 293 cells (HEK293). It contains AA Met 22 - Arg 734 (Accession # Q92854).

Predicted N-terminus: Met 22

Molecular Characterization



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

The protein has a calculated MW of 81.0 kDa. The protein migrates as 100-160 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.

Endotoxin

Less than 1.0 EU per μg by the LAL method / rFC method.

Purity

>90% as determined by SDS-PAGE.

>90% as determined by SEC-MALS.

Formulation

Lyophilized from 0.22 μm filtered solution in PBS, pH7.4 with trehalose as protectant.

Contact us for customized product form or formulation.

Reconstitution

Please see Certificate of Analysis for specific instructions.

For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.

Shipping and Storage

This product is shipped at ambient temperature.

For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

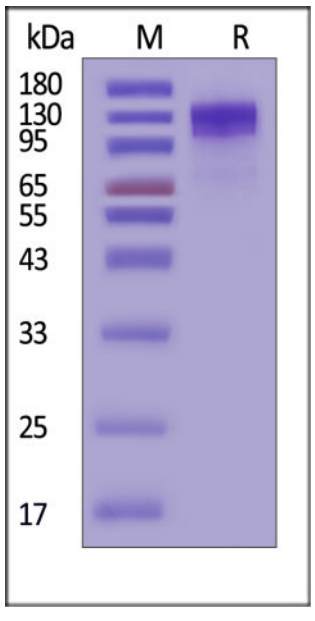
This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

ACRO Quality Management System

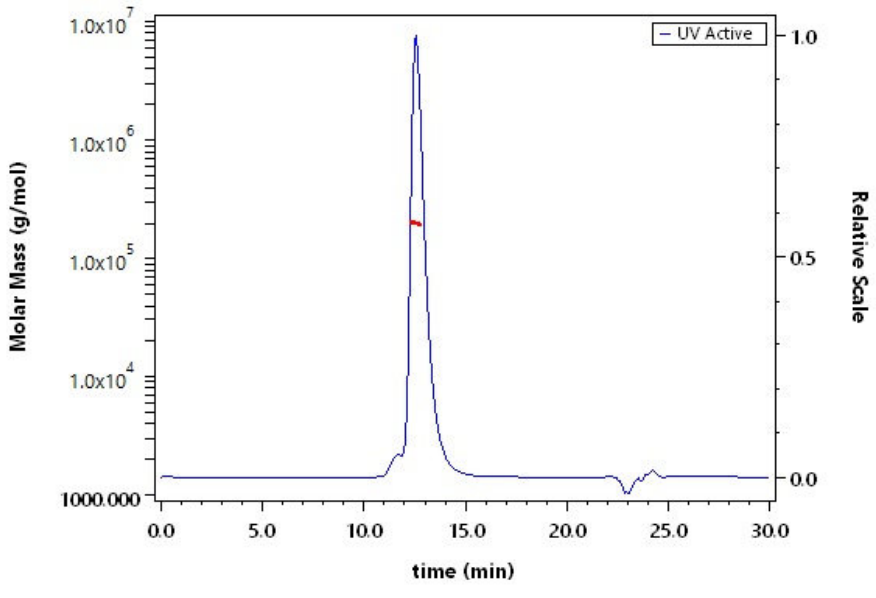
- QMS(ISO, GMP)
- Quality Advantages
- Quality Control Process

SDS-PAGE



Human Semaphorin 4D 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 Semaphorin 4D Protein, His Tag (Cat. No. CD0-H52H7) is more than 90% and the molecular weight of this protein is around 180-220 kDa verified by SEC-MALS.

Background

SEMA4D encodes semaphorin 4D, a transmembrane semaphorin that acts in cell-to-cell signaling in the nervous and immune systems. It serves as a ligand for PLXNB1 and PLXNB2, linking receptor engagement to downstream signaling events. Expression is high in the brain, endocrine system, and respiratory system, and the protein localizes to the plasma membrane and extracellular region, with additional localization reported at the centrosome and ciliary basal body.

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