Rhesus macaque Semaphorin 4A / SEMA4A Protein, His Tag (MALS verified)

Catalog # SEA-R52H3

Synonyms

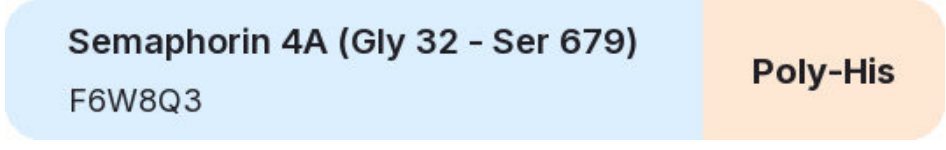
SEMA4A, SEMAB, SEMB, Semaphorin-4A, Semaphorin-B

Source

Rhesus macaque Semaphorin 4A Protein, His Tag (SEA-R52H3) is expressed from human 293 cells (HEK293). It contains AA Gly 32 - Ser 679 (Accession # F6W8Q3).

Predicted N-terminus: Gly 32

Molecular Characterization



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

The protein has a calculated MW of 73.3 kDa. The protein migrates as 70-85 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.

>95% 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.

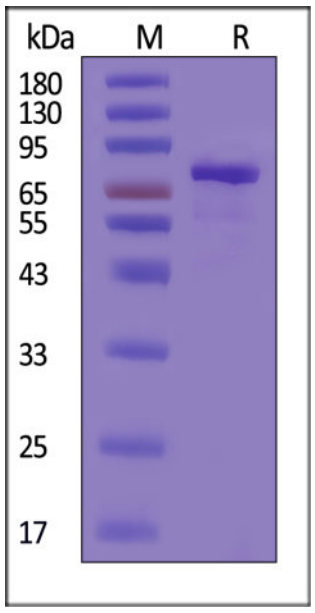
This product is stable after storage at:

- -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

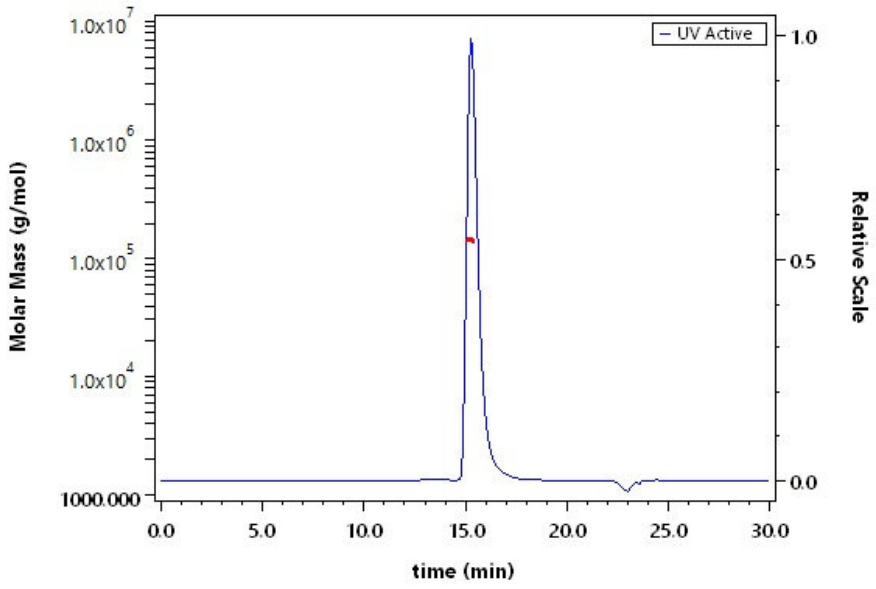
- QMS(ISO, GMP)
- Quality Advantages
- Quality Control Process

SDS-PAGE



Rhesus macaque Semaphorin 4A 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 Rhesus macaque Semaphorin 4A Protein, His Tag (Cat. No. SEA-R52H3) is more than 95% and the molecular weight of this protein is around 135-165 kDa verified by SEC-MALS.

Background

Semaphorin-4A (SEMA4A) is also known as Semaphorin-B (SEMAB), which belongs to the semaphorin family. SEMA4A contains one Ig-like C2-type (immunoglobulin-like) domain, one PSI domain and one sema domain. SEMA4A is cell surface receptor for PLXNB1, PLXNB2, PLXNB3 and PLXND1 that plays an important role in cell-cell signaling. SEMA4A plays a role in priming antigen-specific T-cells, promotes differentiation of Th1 T-helper cells, and thereby contributes to adaptive immunity. SEMA4A also promotes phosphorylation of TIMD2 and inhibits angiogenesis. SEMA4A promotes axon growth cone collapse and inhibits axonal extension by providing local signals to specify territories inaccessible for growing axons.

Discounts, Gifts, and more!