Mouse Complement C1s-1 Protein, His Tag (MALS verified)

Catalog # CO1-M52H3

Synonyms

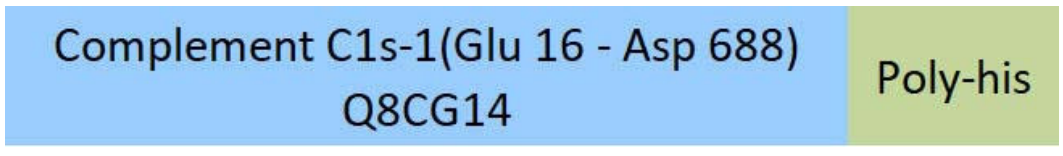
EDSPD2

Source

Mouse Complement C1s-1 Protein, His Tag (CO1-M52H3) is expressed from human 293 cells (HEK293). It contains AA Glu 16 - Asp 688 (Accession # Q8CG14).

Predicted N-terminus: Glu 16

Molecular Characterization



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

The protein has a calculated MW of 77.1 kDa. The protein migrates as 55-60 kDa, 70 kDa and 90-95 kDa when calibrated against Star Ribbon Pre-stained Protein Marker under reducing (R) condition (SDS-PAGE) due to glycosylation.

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.

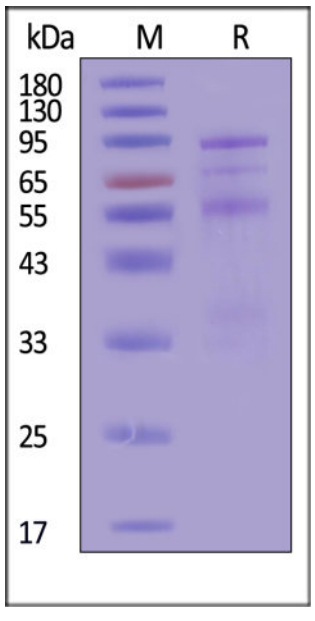
This product is stable after storage at:

- -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

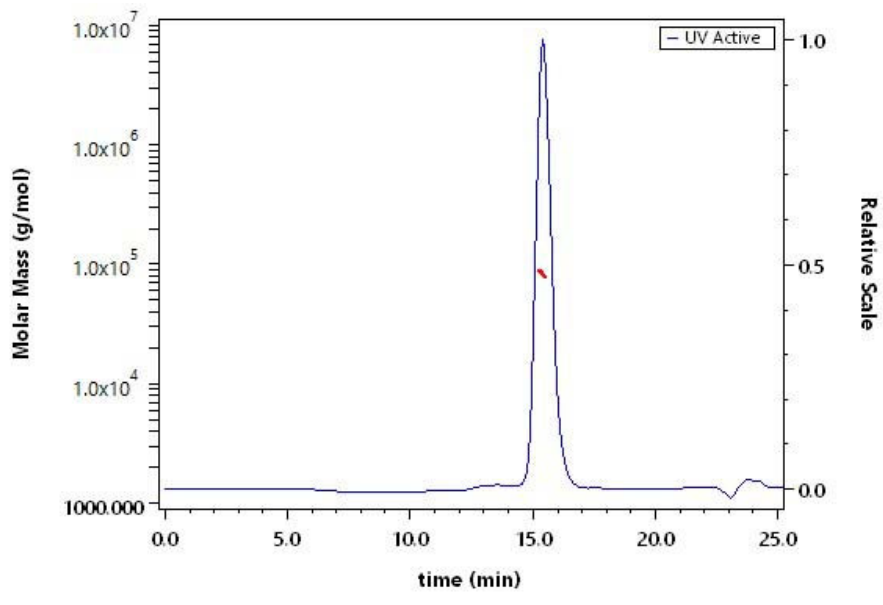
- QMS(ISO, GMP)
- Quality Advantages
- Quality Control Process

SDS-PAGE



Mouse Complement C1s-1 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 Mouse Complement C1s-1 Protein, His Tag (Cat. No. CO1-M52H3) is more than 95% and the molecular weight of this protein is around 75-100 kDa verified by SEC-MALS.

Background

Complement C1s is a serine protease and a key component of the C1 complex in the classical complement pathway. One C1q molecule binds to a tetramer composed of two C1r and two C1s proteases to form the intact C1 complex. C1s circulates as a zymogen until activated by proteolytic cleavage from activated C1r. Its essential function is to cleave complement components C4 and C2, thereby initiating the formation of the C3 convertase (C4b2a). This step is critical for triggering downstream immune effector functions, including opsonization, inflammation, and membrane attack complex formation.