



Synonym

MARCO, SCARA2, Macrophage receptor with collagenous structure, Scavenger receptor class A member 2

Source

Human MARCO, His Tag(MAR-H5243) is expressed from human 293 cells (HEK293). It contains AA Met 79 - Val 520 (Accession # [Q9UEW3-1](#)).

Molecular Characterization

Poly-his	MARCO(Met 79 - Val 520) Q9UEW3-1
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This protein carries a polyhistidine tag at the N-terminus.

The protein has a calculated MW of 45.9 kDa. The protein migrates as 60-65 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 μ g by the LAL method / rFC method.

Purity

>90% as determined by SDS-PAGE.

>90% as determined by SEC-MALS.

Formulation

Lyophilized from 0.22 μ m 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.

Storage

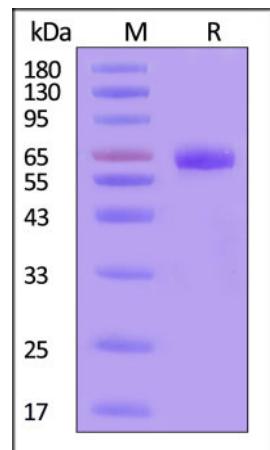
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

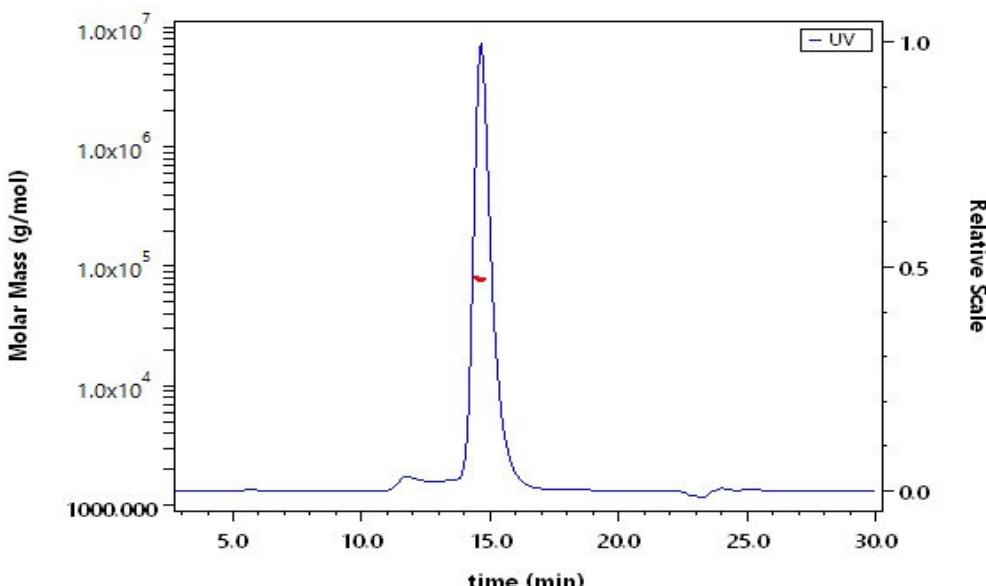
- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE



Human MARCO, 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 MARCO, His Tag (Cat. No. MAR-H5243) is more than 90% and the molecular weight of this protein is around 55-85 kDa verified by SEC-MALS.

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Background

MARCO is also known as Scavenger receptor class A member 2 and SCARA2. Pattern recognition receptor (PRR) which binds Gram-positive and Gram-negative bacteria. Also plays a role in binding of unopsonized particles by alveolar macrophages. Binds to the secretoglobin SCGB3A2. MARCO ligation promotes the production of inflammatory mediators by macrophages. MARCO mediated internalization of some ligands prevents their activation of cell surface TLR4 but enables their activation of intracellular TLR3. MARCO contributes to the clearance of apoptotic cells and inhaled bacteria, mast cell mediated silicosis, and the amelioration of allergen or ozone induced lung inflammation. It is required for the organization of the splenic marginal zone and the interaction of splenic macrophages and B cells.

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