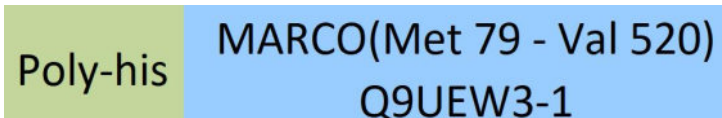


Synonym

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

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 under reducing (R) condition (SDS-PAGE) due to glycosylation.

Endotoxin

Less than 1.0 EU per µg by the LAL method.

Purity

>90% as determined by SDS-PAGE.

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.

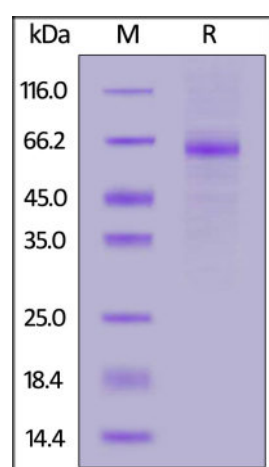
Storage

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 overnight with Coomassie Blue. The purity of the protein is greater than 90%.

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 secretoglobulin 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.

Clinical and Translational Updates

Please contact us via TechSupport@acrobiosystems.com if you have any question on this product.