

Human MARCO Protein, Ultra Low Endotoxin



Cat. No. MRO-HM102-UL

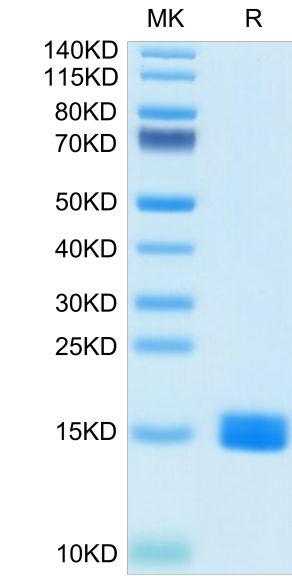
Description	
Source	Recombinant Human MARCO Protein is expressed from HEK293 with His tag at the N-Terminus. It contains Ser405-Val520.
Accession	Q9UEW3-1
Molecular Weight	The protein has a predicted MW of 13.8 kDa. Due to glycosylation, the protein migrates to 14-20 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 0.01 EU per µg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

Formulation and Storage	
Formulation	Lyophilized from 0.22µm filtered solution in PBS, 200mM L-arginine (pH 8.0). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
Storage	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3 months after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Background	
	Macrophage receptor with collagenous structure (MARCO) is the predominant scavenger receptor for recognition and binding of silica particles by alveolar macrophages (AM). MARCO contributes to normal cholesterol uptake in macrophages; therefore, in the absence of MARCO, macrophages are more susceptible to a greater inflammatory response by particulates known to cause NLRP3 inflammasome activation and the effect is due to increased LMP.

Assay Data

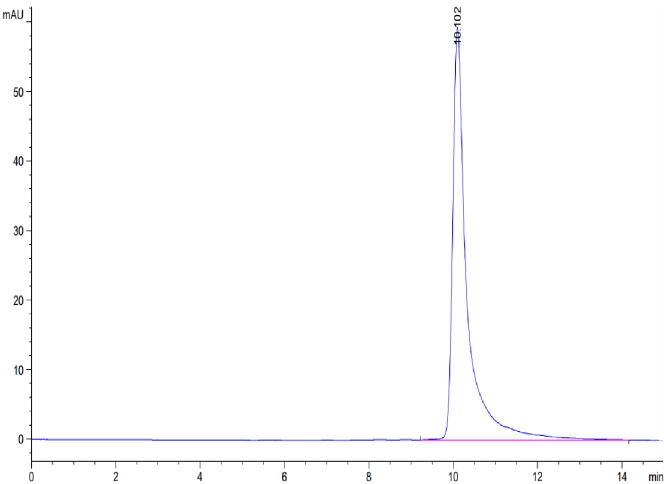
Bis-Tris PAGE



Human MARCO on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC

Assay Data



The purity of Human MARCO is greater than 95% as determined by SEC-HPLC.