

# Recombinant Mouse MARCO Protein (His Tag)

Catalog Number: PKSM041305



**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

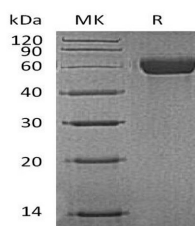
## Description

<b>Synonyms</b>	Macrophage receptor MARCO;Marco;Macrophage receptor with collagenous structure;Ly112;Scara2
<b>Species</b>	Mouse
<b>Expression Host</b>	HEK293 Cells
<b>Sequence</b>	Gln70-Ser518
<b>Accession</b>	Q60754
<b>Calculated Molecular Weight</b>	46.2 kDa
<b>Observed molecular weight</b>	55-65 kDa
<b>Tag</b>	N-His

## Properties

<b>Purity</b>	> 90 % as determined by reducing SDS-PAGE.
<b>Endotoxin</b>	< 1.0 EU per µg of the protein as determined by the LAL method.
<b>Storage</b>	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
<b>Shipping</b>	This product is provided as lyophilized powder which is shipped with ice packs.
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
<b>Reconstitution</b>	Please refer to the printed manual for detailed information.

## Data



> 90 % as determined by reducing SDS-PAGE.

## Background

MARCO (macrophage receptor with collagenous structure) is an 80 kDa type II transmembrane glycoprotein that belongs to the class Scavenger receptor family. Mouse MARCO consists of a 48 amino acid (aa) cytoplasmic domain, a 21 aa transmembrane segment, and a 449 aa extracellular domain (ECD) that includes a stalk region, a collagen-like region, and one SRCR domain. MARCO is constitutively expressed on the surface of splenic and lymph node macrophages. MARCO binds LPS, lipoteichoic acid, and other determinants on Gram positive and Gram negative bacteria. It also binds modified LDL, CpG oligonucleotides, UGRP1, silica, and TiO<sub>2</sub>.

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