

Recombinant Mouse MARCO Protein (His Tag)

Catalog Number: PKSM041305

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

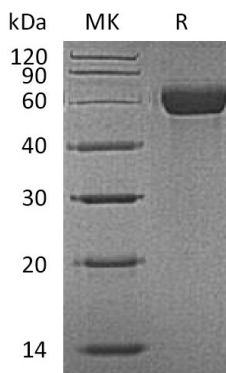
Description

Species	Mouse
Source	HEK293 Cells-derived Mouse MARCO protein Gln70-Ser518, with an N-terminal His
Calculated MW	46.2 kDa
Observed MW	55-65 kDa
Accession	Q60754
Bio-activity	Not validated for activity

Properties

Purity	> 90 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per µg of the protein as determined by the LAL method.
Storage	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.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4. Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
Reconstitution	Please refer to the printed manual for detailed information.

Data



Background

MARCO (macrophage receptor with collagenous structure) is an 80 kDa type II transmembrane glycoprotein that belongs to the class A 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 TiO₂.