For Research Use Only

Recombinant Mouse CD14 protein (His Tag)

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Catalog Number: Eg0847

Basic Information

Species: Mouse

Purity: >90 %, SDS-PAGE

Tag: His Tag

Technical Specifications

Purity:
>90 %, SDS-PAGE

Endotoxin Level:
<0.1 EU/ μ g protein, LAL method

Source:
HEK293-derived Mouse CD14 protein Ser16-Pro345 (Accession# P10810) with a His tag at the C-terminus.

GeneID:
12475

Accession:
P10810

Predicted Molecular Mass:
36.5 kDa

SDS-PAGE:
42-55 kDa, reducing (R) conditions

Formulation:
Lyophilized from 0.22 μ m filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.

Biological Activity

Not tested

Storage and Shipping

Storage:
It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

- Until expiry date, -20℃ to -80℃ as lyophilized proteins.
- 3 months, -20℃ to -80℃ under sterile conditions after reconstitution.

Shipping:
The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.

Reconstitution

Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.

Background

CD14 is a 50-55 kDa glycosylphosphatidylinositol-anchored glycoprotein. CD14 is preferentially expressed on monocytes and macrophages. CD14 acts as a co-receptor (along with TLR4 and MD-2) for bacterial liposaccharides (LPS). It plays a major role in the inflammatory response of monocytes to LPS. Soluble forms of CD14 (sCD14) have been detected in cell culture supernatants and in human serum and urine, either shedded from the cell surface or released from intracellular pools. Increased release of sCD14 from monocytes is observed after stimulation with various agents, and sCD14 may therefore be a marker for activation of monocytes/macrophages.

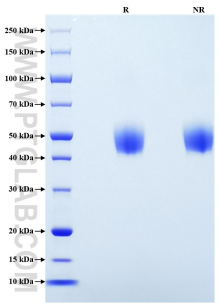
References

1.W A Nockher, et al. (1994) Clin Exp Immunol. 98(3):369-74.
2.A Haziot, et al. (1988) J Immunol. 141(2):547-52.
3.E Lien, et al. (1998) Blood. 92(6):2084-92.
4.E A Kurt-Jones, et al. (2000) Nat Immunol. 1(5):398-401.

Synonyms

CD14 antigen

Selected Validation Data



Purity of Recombinant Mouse CD14 was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) and non-reducing (NR) conditions and stained using Coomassie blue.