

Recombinant Human sCD14
Catalog # PBG10390**Specification**

Recombinant Human sCD14 - Product Information**Recombinant Human sCD14 - Additional Information****Description**

CD14 is a cell surface anchored glycoprotein that is expressed predominantly by monocytes and tissue macrophages. CD14 associates with MD-2 (LY-96) and TLR4 to form a receptor complex, which signals specifically in response to bacterial lipopolysaccharide (LPS) binding. The CD14/MD-2/TLR4 receptor complex signals via MyD88, TIRAP, and TRAF6, and ultimately activates NF-kappaB. CD14 also exists in a soluble form, designated as sCD14, which is capable of specifically binding LPS in the extracellular space. Recombinant sCD14 is a 331 amino acid glycoprotein comprising the extracellular portion of the CD14 receptor.

BiologicalActivity

Determined by the dose dependent activation of NF-kappaB in a RAW264 cell line based reporter system, using a sCD14 concentration range of 20 ng/μl to 200 ng/μl. The NF-kappaB activation is enhanced when the assay is done in the presence of 0.25 ng/μl to 1.0 ng/μl bacterial LPS.

Authenticity

Verified by N-terminal and Mass Spectrometry analyses (when applicable).

Endotoxin

Endotoxin level is <0.1 ng/ μg of protein (<1EU/ μg).

Protein Content

Verified by UV Spectroscopy and/or SDS-PAGE gel.

Storage

-20°C

Precautions

Recombinant Human sCD14 is for research use only and not for use in diagnostic or therapeutic procedures.

Recombinant Human sCD14 - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)

- [Flow Cytometry](#)
- [Cell Culture](#)

Recombinant Human sCD14 - Images