

Datasheet for ABIN935793
CD14 Protein (CD14) (Soluble)



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Overview

Quantity:	50 µg
Target:	CD14
Protein Characteristics:	Soluble
Origin:	Human
Source:	HEK-293T Cells
Protein Type:	Recombinant
Biological Activity:	Active

Product Details

Sequence:	TTPEPCELDD EDFRCVCNFS EPQPDWSEAF QCVSAVEVEI HAGGLNLEPF LKRVDADADP RQYADTVKAL RVRRLTVGAA QVPAQLLVGA LRVLAYSRLK ELTLEDLKIT GTMPPLPLEA TGLALSSLRL RNVSATGGRS WLAELQQWLK PGLKVLSIAQ AHSPAFSCEQ VRAFPALTSL DLSDNPGLGE RGLMAALCPH KFPAIQNLAL RNTGMETPTG VCAALAAAGV QPHSLDLSHN SLRATVNPSA PRCMWSSALN SLNLSFAGLE QVPKGLPAKL RVLDSLSCNRL NRAPQPDELP EVDNLTLDGN PFLVPGTALP HEGSMNSGVV P
Characteristics:	Purified recombinant Human sCD14 protein Expression System: 293 cells Bioactivity: 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/ul to 200 ng/ul. The NF-kappaB activation is enhanced when the assay is done in the presence of 0.25 ng/ul to 1.0 ng/ul bacterial LPS.
Purity:	> 95 % pure

Product Details

Endotoxin Level: < 0.1 ng per µg (1 EU/µg).

Target Details

Target: CD14

Alternative Name: sCD14 ([CD14 Products](#))

Background: 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-kappa-beta. CD14 also exists in a soluble form, designated as sCD14, which is capable of specifically binding LPS in the extracellular space.

Alternative Names: sCD-14 protein, sCD-14, sCD-14 protein, sCD 14 protein, sCD14, soluble CD14 protein, sCD 14

Pathways: [TLR Signaling](#), [Activation of Innate immune Response](#), [Cellular Response to Molecule of Bacterial Origin](#), [Toll-Like Receptors Cascades](#)

Application Details

Application Notes: Each Investigator should determine their own optimal working dilution for specific applications.

Restrictions: For Research Use only

Handling

Format: Lyophilized

Buffer: Supplied as a lyophilized powder.

Handling Advice: Avoid repeated freeze/thaw cycles.

Storage: 4 °C/-20 °C

Storage Comment: Store at 4 °C until reconstitution. Following reconstitution aliquot and freeze at -20 °C for long term storage.