

CD14

Recombinant Human CD14, in cell culture supernatant

Catalog No.	CRCC02	Quantity:	100 µg
Alternate Names:	Myeloid cell-specific leucine-rich glycoprotein, Monocyte differentiation antigen		
Description:	CD14 acts as a receptor for endotoxin (LPS) and is expressed on monocytes, macrophages, and neutrophils. CD14 is anchored to cells by glycosylphosphatidylinositol (GPI)-linkage and functions as a high affinity receptor of LPS-LBP-complexes. Together with TLR4 and a lymphocytic antigen (MD2) CD14 is the lipopolysaccharide (LPS)-Receptor and mediates innate immune response to bacterial lipoproteins. In endothelial cells CD14 has a regulating function for cell survival. In the presence of LPS, CD14 expression can be amplified by TNF- α and IL-1 β (in varied tissues differently). Furthermore CD14 is present in a soluble form in human serum, urine and other body fluids which is directly secreted or derived from protease-dependent shedding of the membrane bound molecule. Soluble CD14 (sCD14) competes with membrane bound CD14 (mCD14) for LPS binding and is able to neutralize LPS-induced responses in vitro and in vivo and mediates the LPS-induced activation of non-CD14 expressing endothelial, epithelial and smooth muscle cells.		
UniProt ID:	P08571		
Gene ID:	929		
Concentration:	1 mg/ml in medium, determined by ELISA prior to lyophilization.		
Source:	CHO cells		
Molecular Weight:	50 kDa		
Formulation:	CHO-S-SFM-II(Gibco), antibiotics, without NaN ₃		
Biological Activity:	The transfected cells were cultivated in a mini-reactor. Characteristic: 50µg/ml totally inhibits binding of FITC-LP(0.5µg/ml) to 6 x 10 ⁵ CD14 +CHO transfectants. Up to 10µg/ml inhibits binding of LPS-FITC.		
Reconstitution:	Centrifuge vial prior to opening. Add 10 µL sterile distilled water to the vial. Further dilution can be made with PBS or other buffers.		
Storage & Stability:	Store as supplied at -80°C for up to 1 year.		
Notes:	Product is unpurified cell culture supernatant. For special tests (ex. Cell culture experiments) a control (cell culture supernatant of vector transfected CHO cells, Cat. No. CRS150) is necessary.		

NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.

