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Product datasheet for TP723883

CD14 (NM_000591) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Human CD14 molecule (CD14), transcript variant 1
Species:	Human
Expression Host:	CHO
Expression cDNA Clone or AA Sequence:	Human CD14, the region of Thr20-Cys352, from gene Accession# NM_000591
Tag:	Tag Free
Predicted MW:	35.8 kDa
Concentration:	lot specific
Purity:	>95%, as determined by Coomassie stained SDS-PAGE.
Buffer:	1 x PBS, pH 7.2
Bioactivity:	The ED50 is 100-400 ng/ml, corresponding to a specific activity of 1.0-2.5 x 104 units/mg, determined by production of IL-8 from THP-1 cells trated with LPS (2 ng/ml) and CD14.
Endotoxin:	Less than 0.01 ng per μg protein as determined by the LAL method
Storage:	Store at -80°C.
Stability:	Unopened vial can be stored between 2°C and 8°C for up to 2 weeks, at -20°C for up to 6 months, or at -70°C or below until the expiration date. Aliquots can be stored between 2°C and 8°C for up to one week and stored at -20°C or colder for up to 3 months. Avoid repeated freeze/thaw cycles.
RefSeq:	NP_000582
Locus ID:	929
UniProt ID:	P08571
RefSeq Size:	1623
Cytogenetics:	5q31.3
RefSeq ORF:	1125

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Summary: The protein encoded by this gene is a surface antigen that is preferentially expressed on monocytes/macrophages. It cooperates with other proteins to mediate the innate immune response to bacterial lipopolysaccharide, and to viruses. This gene has been identified as a target candidate in the treatment of SARS-CoV-2-infected patients to potentially lessen or inhibit a severe inflammatory response. Alternative splicing results in multiple transcript variants encoding the same protein. [provided by RefSeq, Aug 2020]

Protein Families: Adult stem cells, Druggable Genome, Embryonic stem cells, ES Cell Differentiation/IPS, Transmembrane

Protein Pathways: Hematopoietic cell lineage, MAPK signaling pathway, Pathogenic Escherichia coli infection, Regulation of actin cytoskeleton, Toll-like receptor signaling pathway