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**Product Data Sheet**


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Product Name: CD46 Human, Sf9  
 Cat. No.: GP23061  
 Batch No.: 1

**Product Data**

Purity	>98%	Source	Sf9, Baculovirus cells.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	AHUS2; MCP; MIC10; TLX; TRA2.10; Membrane cofactor protein; Trophoblast leukocyte common antigen; CD46.		
Amino Acid Sequence	ADLCEEPPTF EAMELIGKPK PYEIGERVD YKCKKGYFYI PPLATHTICD RNHTWLPVSD DACYRETCPY IRDPLNGQAV PANGTYEFGY QMHFICNEGY YLIGEEILYC ELKGSVAIWS GKPPICEKVL CTPPPKIKNG KHTFSEVEVF EYLDAVTYSC DPAPGDPFVS LIGESTIYCG DNSVWSRAAP ECKVVKCRFP VVENGKQISG FGKFFYKAT VMFECDKGFY LDGSDTIVCD SNSTWDPPVP KCLKGPRPTY KPPVSNYPGY PKPEEGILDS LDHHHHHH		
Formulation	CD46 protein solution (0.5mg/ml) contains Phosphate buffered saline (pH7.4) and 10% glycerol.		

**Introduction**

Membrane cofactor protein isoform 14 (CD46), is a type I membrane protein which has cofactor activity for inactivation of complement components C3b and C4b by serum factor I. This function resides in the complement control protein repeats (CCPs), with CCP1 and C4 vital for regulation. CD46 is also involved in the fusion of the spermatozoa with the oocyte during fertilization. CD46 is common in thymocytes, T cells, B cells, monocytes, granulocytes, NK cells, platelets, endothelial cells, epithelial cells, fibroblasts, placenta and sperm.

**Stability**

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

**Background**

**Caution: Product has not been fully validated for medical applications. For research use only.**

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CD46 Human Recombinant produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 268 amino acids (35-313 aa) and having a molecular mass of 32.5kDa (Molecular size on SDS-PAGE will appear at approximately 40-57kDa). CD46 is fused to 6 amino acid His-Tag at C-terminus and purified by proprietary chromatographic techniques.

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