
Product Data Sheet

Product Name: CD46 Human

Cat. No.: GP23060

Batch No.: 1

Product Data

Purity	>98%	Source	E.coli.
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	MGSSHHHHHH SGLVPRGSH MGSCEPPTF EAMELIGKPK PYEIGERVD YKCKKGYFYI PPLATHTICD RNHTWLPVSD DACYRETCPY IRDPLNGQAV PANGTYEFGY QMHFICNEGY YLIGEEILYC ELKGSVAIWS GKPPICEKVL CTPPPKIKNG KHTFSEVEVF EYLDAVTYSC DPAPGDPFVS LIGESTIYCG DNSVWSRAAP ECKVVKCRFP VVENGKQISG FGKKFYYKAT VMFECDKGFY LDGSDTIVCD SNSTWDPPVP KCLKGPRPTY KPPVSNYPGY PKPEEGILDS LD.		
Formulation	CD46 protein solution (0.5mg/ml) containing 20mM Tris-HCl buffer (pH 8.0), 0.1M NaCl and 20% 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 E.Coli is a single, non-glycosylated polypeptide chain containing 302 amino acids (35-313 a.a) and having a molecular mass of 33.8kDa. CD46 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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