
Product Data Sheet

Product Name: CD59 Human
 Cat. No.: GP23068
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.

Synonyms CD59 Molecule Complement Regulatory Protein; CD59 Antigen P18-20; CD59 Glycoprotein; Surface Antigen Recognized By Monoclonal Antibody 16.3A5; Membrane Attack Complex (MAC) Inhibition Factor; Lymphocytic Antigen CD59/MEM43; Human Leukocyte Antigen MIC11; Membrane Attack Complex Inhibition Factor; 20 KDa Homologous Restriction Factor; Membrane Inhibitor Of Reactive Lysis; MAC-Inhibitory Protein; T Cell-Activating Protein; Ly-6-Like Protein; Protectin; MIC11; MSK21; MEM43; MIN1/2/3; MIRL; MAC-IP; MACIF; HRF-20; G344; EJ16/30/32; 1F5.

Amino Acid Sequence MGSSHHHHHH SGLVPRGSH MGSLQCYNCP NPTADCKTAV NCSSDFDACL
 ITKAGLQVYN KCWKFEHCNF NDVTTRLREN ELTYCCKKD LCNFNEQLEN.

Formulation The CD59 solution (0.5mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.15M NaCl, 1mM DTT and 10% glycerol.

Introduction

CD59 is a cell surface glycoprotein which regulates complement-mediated cell lysis, and it is involved in lymphocyte signal transduction. CD59 is an effective inhibitor of the complement membrane attack complex, whereby it binds complement C8 and/or C9 during the compilation of this complex, thus inhibiting the incorporation of multiple copies of C9 into the complex, which is essential for osmolytic pore formation. In addition, CD59 has a role in signal transduction pathways in the activation of T cells. CD59 gene mutations cause CD59 deficiency, a disease resulting in hemolytic anemia and thrombosis, and which causes cerebral infarction.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks.

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

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Background

CD59 Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 100 amino acids (26-102) and having a molecular mass of 11.3kDa.

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