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## Product Data Sheet

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Product Name: CD68 Human, sf9  
 Cat. No.: GP23071  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Sf9, Baculovirus cells.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.

Synonyms      Macrosialin; CD68; Gp110; Macrosialin isoform A; GP110; LAMP4; SCARD1.

Amino Acid Sequence      ADPNDCPHKK SATLLPSFTV TPTVTESTGT TSHRTTKSHK TTTTHRTTTTG  
 TTSHGPTTAT HNPTTTSHGN VTVHPTSNST ATSQGPSTAT HSPATTSHGN  
 ATVHPTSNST ATSPGFTSSA HPEPPPPSPS PSPTSKETIG DYTWTNGSQP  
 CVHLQAQIQI RVMYTTQGGG EAWGISVLNP NKTKVQGSCE GAHPHLLLSF  
 PYGHLSFGFM QDLQQKVYYL SYMAVEYNVS FPHAAQWTF S AQNASLRDLQ  
 APLGQSFSCS NSSIILSPAV HLDLLSLRLQ AAQLPHTGVF GQSFSCPSDR  
 SHHHHHH.

Formulation      CD68 protein solution (1mg/ml) containing Phosphate Buffered Saline (pH 7.4) and 10% glycerol.

### Introduction

CD68 encodes a 110-kD transmembrane glycoprotein that is highly expressed by human monocytes and tissue macrophages. It is a member of the lysosomal/endosomal-associated membrane glycoprotein (LAMP) family. The protein primarily localizes to lysosomes and endosomes with a smaller fraction circulating to the cell surface. It is a type I integral membrane protein with a heavily glycosylated extracellular domain and binds to tissue- and organ-specific lectins or selectins. The protein is also a member of the scavenger receptor family. Scavenger receptors typically function to clear cellular debris, promote phagocytosis, and mediate the recruitment and activation of macrophages. Alternative splicing results in multiple transcripts encoding different isoforms.

### Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store frozen at -20°C for longer

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

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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

CD68 Human Recombinant produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 307 amino acids (22-319) and having a molecular mass of 32.6kDa (Molecular size on SDS-PAGE will appear at approximately 57-70kDa). CD68 is fused to 6 amino acid His-Tag at C-terminus and purified by proprietary chromatographic techniques.

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