
Product Data Sheet

Product Name: CD68 Human

Cat. No.: GP23069

Batch No.: 1

Product Data

Purity	>98%	Source	E.coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Macrosialin; Gp110; CD68 antigen; CD68; SCARD1; DKFZp686M18236.		
Amino Acid Sequence	MGSSHPLHHH SSGLVPRGSH MGSHMNDCPH KKSATLLPSF TVTPTVTEST GTTSHRRTTKS HKTTTHRTTT TGTTSHGPTT ATHNPTTTSN GNVTVHPTSN STATSQGPST ATHSPATTSH GNATVHPTSN STATSPGFTS SAHPEPPPPS PSPSPTSKET IGDYTWNGS QPCVHLQAQI QIRVMYTTQG GGEAWGISVL NPNKTKVQGS CEGAHPHLLL SFPYGHLSFG FMQDLQQKV YLSYMAVEYN VSFPHAAQWT FSAQNASLRD LQAPLGQSFS CSNSSIILSP AVHLDLLSLR LQAAQLPHTG VFGQSFSCPS DRS		
Formulation	The CD68 solution (1mg/1ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.1M NaCl, 1M Urea 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 E. coli is a single polypeptide chain containing 323 amino acids (22-319) and having a molecular mass of 34.1 kDa. CD68 is fused to a 25 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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