

CD68 Protein, Mouse (sf9, His)

Cat. No.:	HY-P74278
Synonyms:	CD68 antigenmacrophage antigen CD68; CD68; Gp110; Macrosialin; SRD1
Species:	Mouse
Source:	Sf9 insect cells
Accession:	P31996 (M1-S291)
Gene ID:	12514
Molecular Weight:	Approximately 30.2 kDa

PROPERTIES

Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μ m filtered solution of 20 mM Tris, 150 mM NaCl, pH 8.0, 10% Glycerol. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
Endotoxin Level	<1 EU/ μ g, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 μ g/mL in ddH ₂ O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	The CD68 protein is implicated in potentially playing a crucial role in the phagocytic activities of tissue macrophages, influencing both intracellular lysosomal metabolism and extracellular interactions involving cell-cell and cell-pathogen encounters. It exhibits binding capabilities to tissue- and organ-specific lectins or selectins, facilitating the homing of distinct macrophage subsets to specific anatomical sites. The rapid recirculation of CD68 from endosomes and lysosomes to the plasma membrane suggests a dynamic mechanism that enables macrophages to navigate and traverse selectin-bearing substrates or interact with other cells. This multifaceted functionality of CD68 underscores its significance in the intricate processes of immune response and cellular interactions within diverse tissue microenvironments.
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Caution: Product has not been fully validated for medical applications. For research use only.

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