

Lymphocyte antigen 86/MD-1 Protein, Mouse (HEK293, His)

Cat. No.:	HY-P74441
Synonyms:	LY86; lymphocyte antigen 86; MD-1; MMD-1; RP105-associated
Species:	Mouse
Source:	HEK293
Accession:	O88188 (M1-S162)
Gene ID:	17084
Molecular Weight:	24-30 kDa

PROPERTIES

Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/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 Lymphocyte antigen 86/MD-1 protein emerges as a potential collaborator with CD180 and TLR4, mediating the innate immune response to bacterial lipopolysaccharide (LPS) and influencing cytokine production. Additionally, Lymphocyte antigen 86/MD-1 plays a crucial role in facilitating efficient CD180 cell surface expression. The structural arrangement involves the formation of an M-shaped tetramer, comprising two CD180-LY86 heterodimers. These characteristics underscore the multifaceted nature of Lymphocyte antigen 86/MD-1 in orchestrating immune responses and cellular interactions. Further exploration is essential to unravel the specific molecular mechanisms through which Lymphocyte antigen 86/MD-1 contributes to the intricate dynamics of the innate immune system and its collaboration with CD180 and TLR4 in response to bacterial LPS.
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Caution: Product has not been fully validated for medical applications. For research use only.

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