

CD1B Protein, Human (HEK293, Fc)

Cat. No.:	HY-P75438
Synonyms:	T-cell surface glycoprotein CD1b; CD1b; CD1B
Species:	Human
Source:	HEK293
Accession:	P29016 (S18-S303)
Gene ID:	910
Molecular Weight:	59-69 kDa

PROPERTIES

Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μ m 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/ 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 CD1B protein serves as a key antigen-presenting molecule, demonstrating the ability to bind both self and non-self lipid and glycolipid antigens, thereby facilitating their presentation to T-cell receptors on natural killer T-cells. Forming a heterodimeric complex with B2M (beta-2-microglobulin), this protein plays a crucial role in immune surveillance and response. Its interaction with saposin C further enhances its functional repertoire, contributing to the intricate processes underlying T-cell recognition and activation in response to a diverse array of antigens.
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Caution: Product has not been fully validated for medical applications. For research use only.

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