

CD1D2-B2M Heterodimer Protein, Mouse (HEK293, His)

Cat. No.:	HY-P76779
Synonyms:	Antigen-presenting glycoprotein CD1d2; Cd1d2; Beta-2-microglobulin
Species:	Mouse
Source:	HEK293
Accession:	P11610 (Q22-G305)&P01887 (I21-M119)
Gene ID:	12480&12010
Molecular Weight:	Approximately 33.7&11.7 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 CD1D2-B2M heterodimer protein serves as a pivotal antigen-presenting molecule, with the ability to bind both self and non-self glycolipids and subsequently present them to T-cell receptors on natural killer T-cells. In its heterodimeric partnership with B2M (beta-2-microglobulin), CD1D2 plays a crucial role in mediating immune responses. Notably, its interactions with MHC II and CD74 further underscore its significance within the intricate network of immune system regulation.
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Caution: Product has not been fully validated for medical applications. For research use only.

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