

## CD1D Protein, Human (HEK293, His)

Cat. No.:	HY-P74327
Synonyms:	Antigen-presenting glycoprotein CD1d; CD1D; R3G1
Species:	Human
Source:	HEK293
Accession:	P15813 (M1-S301)
Gene ID:	912
Molecular Weight:	45-50 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 <sub>2</sub> 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 CD1D-B2M heterodimer protein is a crucial antigen-presenting molecule that exhibits the unique ability to bind both self and non-self glycolipids, 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 central role in orchestrating immune responses. Its interactions with MHC II further contribute to its significance in 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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