

CD1D-B2M Heterodimer Protein, Human (HEK293, His)

Cat. No.:	HY-P74326
Synonyms:	Antigen-presenting glycoprotein CD1d; CD1D; R3G1; Beta-2-microglobulin; B2M
Species:	Human
Source:	HEK293
Accession:	P15813 (E20-S301)&P61769 (I21-M119)
Gene ID:	912&567
Molecular Weight:	Approximately 48&12 kDa

PROPERTIES

AA Sequence	<pre> E V P Q R L F P L R C L Q I S S F A N S S W T R T D G L A W L G E L Q T H S W S N D S D T V R S L K P W S Q G T F S D Q Q W E T L Q H I F R V Y R S S F T R D V K E F A K M L R L S Y P L E L Q V S A G C E V H P G N A S N N F F H V A F Q G K D I L S F Q G T S W E P T Q E A P L W V N L A I Q V L N Q D K W T R E T V Q W L L N G T C P Q F V S G L L E S G K S E L K K Q V K P K A W L S R G P S P G P G R L L L V C H V S G F Y P K P V W V K W M R G E Q E Q Q G T Q P G D I L P N A D E T W Y L R A T L D V V A G E A A G L S C R V K H S S L E G Q D I V L Y W G G S Y T S & I Q R T P K I Q V Y S R H P A E N G K S N F L N C Y V S G F H P S D I E V D L L K N G E R I E K V E H S D L S F S K D W S F Y L L Y Y T E F T P T E K D E Y A C R V N H V T L S Q P K I V K W D R D M </pre>
Biological Activity	Data is not available.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.
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 CD1D-B2M heterodimer protein is a crucial antigen-presenting molecule that exhibits the unique ability to bind both self
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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.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA