

## CD1C-B2M Heterodimer Protein, Rhesus Macaque (HEK293, His)

Cat. No.:	HY-P76210
Synonyms:	T-cell surface glycoprotein CD1c; CD1C; Beta-2-microglobulin; B2M
Species:	Rhesus Macaque
Source:	HEK293
Accession:	NP_001139005 (Q21-F298)& NP_001040602 (I21-M119)
Gene ID:	717148&712428
Molecular Weight:	Approximately 44.7 (33.1+ 11.6) 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	CD1C belongs to Group 1 of the transmembrane glycoprotein CD1 family. The CD1 molecule is expressed on the surface of many different human antigen-presenting cells (DC, monocytes, and some thymus cells). The CD1C protein, as a key antigen-presenting molecule, has shown 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. Human group 1 CD1 molecules (CD1a, CD1b, and CD1c) bind to pools of lipid antigens expressed by mycobacteria and present them to specific T cells, thereby mediating an effective pathway for host defense against tuberculosis. CD1C is associated with breast cancer prognosis and immune invasion <sup>[1][2][3]</sup> .
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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