

B2M/Beta-2 microglobulin Protein, Cynomolgus (99a.a, HEK293, His)

Cat. No.:	HY-P70086
Synonyms:	rCynBeta-2-microglobulin/B2M, His; Beta-2-Microglobulin; B2M
Species:	Cynomolgus
Source:	HEK293
Accession:	Q8SPW0 (I21-M119)
Gene ID:	101867173
Molecular Weight:	Approximately 14.0 kDa

PROPERTIES

AA Sequence	I Q R T P K I Q V Y S R H P P E N G K P N F L N C Y V S G F H P S D I E V D L L K N G E K M G 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 N E K D E Y A C R V N H V T L S G P R T V K W D R D M
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. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
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	<p>Beta-2 microglobulin (B2M) is a crucial component of the class I major histocompatibility complex (MHC), playing a pivotal role in the immune system's recognition of foreign substances. It is involved in presenting peptide antigens to the immune system, facilitating the surveillance and response to potential threats. B2M forms a heterodimer with an alpha chain, collectively constituting major histocompatibility complex class I molecules. This heterodimeric complex is essential for antigen presentation, a process vital for immune surveillance and the activation of immune responses. Ongoing research may further uncover the nuanced functions and implications of B2M in immune system regulation.</p>
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Caution: Product has not been fully validated for medical applications. For research use only.

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