B2M/Beta-2 microglobulin Protein, Rat (119a.a, HEK293, C-His)

Cat. No.:	HY-P74402A
Synonyms:	Beta-2-microglobulin; B2M
Species:	Rat
Source:	HEK293
Accession:	P07151 (M1-M119)
Gene ID:	24223
Molecular Weight:	Approximately 15 kDa

PROPERTIES

AA Sequence	M A R S V T V I F L V L V S L A V V L A I Q K T P Q I Q V Y S R H P P E N G K P N F L N C Y V S Q F H P P Q I E I E L L K N G K K I P N I E M S D L S F S K D W S F Y I L A H T E F T P T E T D V Y A C R V K H V T L K E P K T V T W D R D M
Biological Activity	Data is not available
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μm filtered solution of 20 mM PB, 150 mM NaCl, pH 7.4.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O. 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	As a crucial component of the class I major histocompatibility complex (MHC), Beta-2 microglobulin (B2M) plays a pivotal role in presenting peptide antigens to the immune system, contributing to immune surveillance and response. Operating within a heterodimeric structure, B2M forms a complex with an alpha chain to create major histocompatibility complex class I molecules, facilitating the recognition of antigens by immune cells. Notably, B2M functions as the beta-chain in this molecular arrangement. Furthermore, it engages in the formation of a heterotrimer with MR1 and a metabolite antigen, expanding its involvement in antigen presentation and immune signaling pathways. The intricate interactions and molecular partnerships underscore the significance of B2M in the orchestration of immune responses through the

	recognition and presentation of antigens.

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

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