

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

Cat. No.:	HY-P78625
Synonyms:	Beta-2-microglobulin; B2M
Species:	Rat
Source:	HEK293
Accession:	NP_036644 (I21-M119)
Gene ID:	24223
Molecular Weight:	approximately 13 kDa

PROPERTIES

AA Sequence	<p>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</p> <p>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</p> <p>R V K H V T L K E P K T V T W D R D M</p>
Biological Activity	Measured in a cell proliferation assay using U251 cells. ED ₅₀ this effect is 26.10 ng/ml, corresponding to a specific activity is 38314.1762 units/mg.
Appearance	Lyophilized powder.
Formulation	Lyophilized a 0.22 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>B2M, or Beta-2 microglobulin, is predicted to possess MHC class II protein complex binding activity and protein homodimerization activity. It plays a role in the response to cadmium ion and xenobiotic stimulus, and it is located in the extracellular space. B2M serves as a biomarker for conditions such as acute kidney failure, pyelonephritis, and ureteral obstruction. The human ortholog(s) of this gene have been implicated in various health conditions, including arthritis, familial visceral amyloidosis, immunodeficiency 43, and inflammatory bowel disease. B2M exhibits biased expression in tissues such as the spleen, lung, and nine other tissues, suggesting its involvement in diverse physiological processes.</p>
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Caution: Product has not been fully validated for medical applications. For research use only.

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