

Recombinant Human Beta-2-microglobulin, His-tagged

Cat. No. B2M-2722H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human B2M protein, fused to His-tag at N-terminus, was expressed in <i>E.coli</i> and purified by using conventional chromatography techniques. MW = 14.0kDa (120aa), confirmed by MALDI-TOF.
Species	Human
Source	E.coli
ProteinLength	21-119 aa
Description	Beta2 microglobulin, also known as B2M, is a component of MHC class I molecules, Involved in the presentation of peptide antigens to the immune system. B2M is a protein found on the surface of many cells and plentiful on the surface of white blood cells. Increased production or destruction of these cells causes B2M levels in the blood to increase. This increase is seen in people with cancers involving white blood cells, but it is particularly meaningful in people newly diagnosed with multiple myeloma. Multiple myeloma is a malignancy (cancer) of a certain kind of white blood cell, called a plasma cell. B2M Testing is done primarily when evaluating a person for certain kinds of cancer affecting white blood cells including chronic lymphocytic leukemia, non-Hodgkin's lymphoma, and multiple myeloma or kidney disease.
Sequences Of Amino Acids	MGSSHHHHHH SSGLVPRGSH MIQRTPKIQV YSRHPAENGK SNFLNCYVSG FHPSDIEVDL LKNGERIEKV EHS DLSFSKD WSFYLLYYTE FTPTEKDEYA CRVNHVTL SQ PKIVKWDRDM

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Form	Liquid. In 20mM Tris-HCl buffer (pH8.0) containing 20% glycerol, 2mM DTT, 100mM NaCl.
Purity	> 95% by SDS – PAGE.
Concentration	0.5 mg/ml (determined by Bradford assay).
Storage	Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

GENE INFORMATION

Gene Name	B2M beta-2-microglobulin [Homo sapiens]
Synonyms	B2M; beta-2-microglobulin; Beta-2 microglob ulin form pI 5.3; beta-2-microglobin; beta chain of MHC class I molecules
Gene ID	567
mRNA Refseq	NM_004048
Protein Refseq	NP_004039
MIM	109700
UniProt ID	P61769
Chromosome Location	15q21-q22.2
Pathway	Antigen processing and presentation; HIV Infection; Signaling in Immune system

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Function

protein binding

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