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## Product Data Sheet

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Product Name: B2M Human, His  
 Cat. No.: GP22830  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Beta-2-microglobulin; Beta chain of MHC class I molecules; B2M; Beta 2 Microglobulin.		
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MIQRTPKIQV YSRHPAENGK SNFLNCYVSG FHPSDIEVDL LKNGERIEKV EHSDFSFSKD WSFYLLYYTE FTPTEKDEYA CRVNHVTLSQ PKIVKWDRDM.		
Formulation	B2M Human solution containing 20mM Tris pH-8, 2mM DTT, 0.1M NaCl & 20% glycerol.		

### Introduction

B2M is a part of the MHC class I family that participates in the presentation of peptide antigens to the immune system. B2M is localized on the surface of numerous cells and abundant on the surface of white blood cells. High production or destruction of these cells causes B2M levels in the blood to raise. This increase is observed in people with cancers involving white blood cells, but it is mainly significant in people newly diagnosed with multiple myeloma. 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.

### Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

B2M Recombinant Human produced in E.Coli is a single, non-glycosylated polypeptide chain containing 120 amino acids (1-119 a.a.) and having a molecular mass of 14 kDa.

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

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Address: 10292 Central Ave. #205, Montclair, CA, USA

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The B2M is fused to a 21 amino acid His-Tag at N-terminus and purified by proprietary chromatographic techniques.

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