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AR09561PU-N Human Beta-2-microglobulin (21-119, His-tag) - Purified

Alternate names: B2M, Beta 2 microglobulin, Beta-2 microglobulin

Quantity: 50 µg

Concentration: 0.5 mg/ml (determined by Bradford assay)

Background: 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.

Uniprot ID: P61769

NCBI: NP_004039

GeneID: 567

Species: Human

Source: E. coli

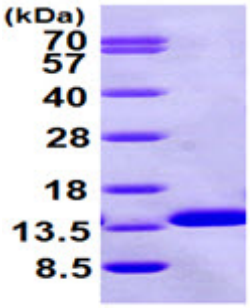
Format: **State:** Liquid purified protein
Purity: >95% by SDS - PAGE
Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 20% glycerol, 2 mM DTT, 100 mM NaCl

Description: Recombinant B2M protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
AA Sequence:
MGSSHHHHHH SSGLVPRGSH MIQRTPKIQV YSRHPAENGK SNFLNCYVSG FHPSDIEVDL LKNGERIEKV EHSDLSFSKD WSFYLLYYTE FTPTEKDEYA CRVNHVTLSQ PKIVKWDRDM
Molecular weight: kDa (120aa), confirmed by MALDI-TOF

Storage: Store undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C or -70°C for longer.
Avoid repeated freezing and thawing.
Shelf life: one year from despatch.

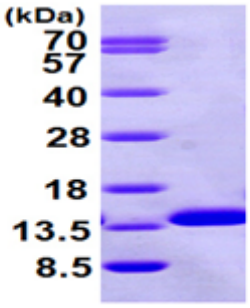
General Readings: Huang WC., et al (2010) J Biol Chem. 285(11):7947-56.
Morabito A., et al. (2009) Hum Immunol. 70(7):492-5.

Pictures:



15% SDS-PAGE (3ug)

Recombinant human B2M, 21-119aa, His-tagged



15% SDS-PAGE (3ug)