

# Recombinant Human B2M protein (mFc Tag)

Catalog Number: Eg2284

## Basic Information

**Species:**  
Human**Purity:**  
>90 %, SDS-PAGE**Tag:**  
mFc Tag

## Technical Specifications

**Purity:**

&gt;90 %, SDS-PAGE

**Endotoxin Level:**

&lt;1.0 EU/ µg protein, LAL method

**Source:**

HEK293-derived Human B2M protein Ile21-Met119 (Accession# P61769) with a mouse IgG Fc tag at the C-terminus.

**GeneID:**

567

**Accession:**

P61769

**Predicted Molecular Mass:**

38.4 kDa

**SDS-PAGE:****Formulation:**

Lyophilized from 0.22 µm filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.

## Biological Activity

Not tested

## Storage and Shipping

**Storage:**

It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

- Until expiry date, -20°C to -80°C as lyophilized proteins.
- 3 months, -20°C to -80°C under sterile conditions after reconstitution.

**Shipping:**

The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.

## Reconstitution

Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.

## Background

Beta-2-microglobulin (B2M) is an important component of the major histocompatibility complex class I (MHC-I) molecule that is expressed on the surface of almost all nucleated cells. B2M has been suggested as an emerging biomarker for cardiovascular diseases (CVD), including coronary heart disease (CHD) and stroke, and mortality. B2M also complexes with many non-classical MHC-I like molecules such as CD1, MR1, HLA-E, -F, -G and neonatal Fc receptor that are involved in mucosal immunity, tumour surveillance, immunoglobulin and albumin homeostasis.

## References

1. Berggård, I, and A G Bearn. The Journal of biological chemistry vol. 243,15 (1968): 4095-103.
2. Shi, Fanchao et al. Atherosclerosis vol. 320 (2021): 70-78.
3. Argyropoulos, Christos P et al. Frontiers in medicine vol. 4 73.

## Synonyms

Beta-2-microglobulin, beta 2 microglobulin, beta 2-Microglobulin, Beta-2-microglobulin form pl 5.3, CDABP0092

## Selected Validation Data

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For technical support and original validation data for this product please contact

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