

# Human B2M/beta 2-Microglobulin Protein, Ultra Low Endotoxin

Cat. No. B2M-HM101-UL

## Description

<b>Source</b>	Recombinant Human B2M/beta 2-Microglobulin Protein is expressed from HEK293 with His tag at the C-Terminus. It contains Ile21-Met119.
<b>Accession</b>	P61769-1
<b>Molecular Weight</b>	The protein has a predicted MW of 12.8 kDa. Due to glycosylation, the protein migrates to 13-15 kDa based on Bis-Tris PAGE result.
<b>Endotoxin</b>	Less than 0.01 EU per µg by the LAL method.
<b>Purity</b>	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

## Formulation and Storage

<b>Formulation</b>	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
<b>Reconstitution</b>	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
<b>Storage</b>	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3 months after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

## Background

The genetic and functional analysis of  $\beta$ 2-microglobulin (B2M), a component of the HLA class-I complex. Acquired homozygous loss of B2M that caused lack of cell-surface HLA Class I expression in the tumor and a matched patient-derived xenograft (PDX). Downregulation of B2M was also found in two additional PDXs established from ICI-resistant tumors.

## Assay Data

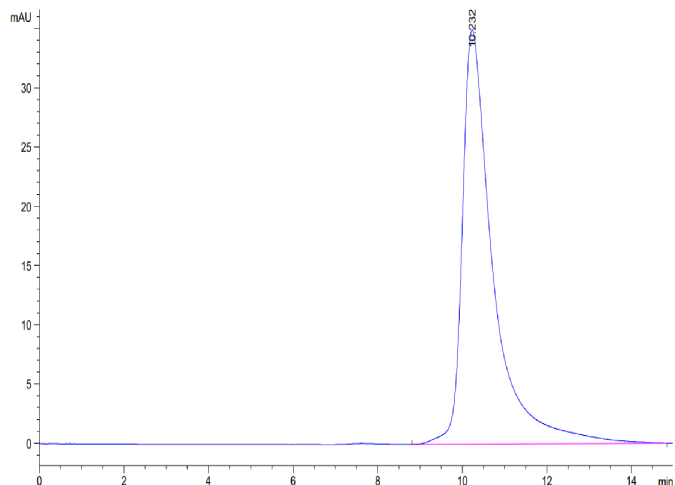
### Bis-Tris PAGE



Human B2M on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

### SEC-HPLC

Assay Data



The purity of Human B2M is greater than 95% as determined by SEC-HPLC.