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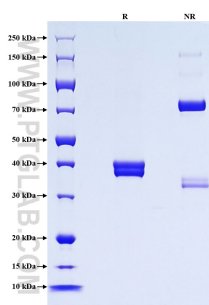
# Recombinant Mouse Beta-2-Microglobulin protein (rFc Tag)



Catalog Number: Eg3086

Basic Information	Species: Mouse	Purity: >90 %, SDS-PAGE	Tag: rFc Tag
Technical Specifications	<p><b>Purity:</b> &gt;90 %, SDS-PAGE</p> <p><b>Endotoxin Level:</b> &lt;0.1 EU/ <math>\mu</math>g protein, LAL method</p> <p><b>Source:</b> HEK293-derived Mouse Beta-2-Microglobulin protein Ile21-Met119 (Accession# P01887) with a rabbit IgG Fc tag at the C-terminus.</p> <p><b>GeneID:</b> 12010</p> <p><b>Accession:</b> P01887</p> <p><b>Predicted Molecular Mass:</b> 37.7 kDa</p> <p><b>SDS-PAGE:</b> 37-42 kDa, reducing (R) conditions</p> <p><b>Formulation:</b> Lyophilized from 0.22 <math>\mu</math>m filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.</p>		
Biological Activity	Not tested		
Storage and Shipping	<p><b>Storage:</b> It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.</p> <ul style="list-style-type: none"><li>• Until expiry date, -20°C to -80°C as lyophilized proteins.</li><li>• 3 months, -20°C to -80°C under sterile conditions after reconstitution.</li></ul> <p><b>Shipping:</b> The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.</p>		
Reconstitution	Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.		
Background	<p>Beta-2-microglobulin (B2M) is a component of MHC class I molecules, which are present on the surface of nearly all nucleated cells. It can be found in body fluids under physiologic conditions as a result of shedding from cell surfaces or intracellular release. B2M has various biological functions, including antigen presentation. Investigations reveal that increased synthesis and release of B2M are present in several malignant diseases.</p>		
References	<ol style="list-style-type: none"><li>1. Gao Y, Hong Y, et al. (2023) Cell. 186(5):1026-1038.e20.</li><li>2. Enzan N, Matsushima S, et al. (2023) Circ Res. 132(9):1110-1126.</li><li>3. Jheng JR, DesJardin JT, et al. (2024) scler Thromb Vasc Biol. 44(7):1570-1583.</li><li>4. Zhao Y, Zheng Q, et al. (2023) Nat Neurosci. 26(7):1170-1184.</li></ol>		
Synonyms	B2m, beta 2 microglobulin		

## Selected Validation Data



Purity of Recombinant Mouse Beta-2-Microglobulin was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) and non-reducing (NR) conditions and stained using Coomassie blue.