Recombinant Human Beta-2-microglobulin/B2M Protein

Catalog No.: RP00105

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Sequence Information

Species
Human

Gene ID
567

Swiss Prot
P61769

Tags
C-His

Synonyms
B2M, IMD43, beta-2-microglobulin, IMD43

Product Information

Source
HEK293 cells

Purification
≥ 95 % as determined by SDS-PAGE.

Calculated MW
12.57 kDa

Observed MW
14-15 kDa

Endotoxin
< 0.1 EU/μg of the protein by LAL method.

Formulation
Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.Contact us for customized product form or formulation.

Reconstitution
Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Background

This protein is a serum protein found in association with the major histocompatibility complex (MHC) class I heavy chain on the surface of nearly all nucleated cells. The protein has a predominantly beta-pleated sheet structure that can form amyloid fibrils in some pathological conditions. The encoded antimicrobial protein displays antibacterial activity in amniotic fluid. A mutation in this gene has been shown to result in hypercatabolic hypoproteinemia.

Basic Information

Description
Recombinant Human Beta-2-microglobulin/B2M Protein is produced by HEK293 expression system. The target protein is expressed with sequence (Ile21-Met119) of human B2M/Beta-2-microglobulin (Accession #NP_004039.1) fused with a 6×His tag at the C-terminus.

Activity
Measured by its binding ability in a functional ELISA. Immobilized Recombinant Human B2M at 2 μg/mL (100 μL/well) can bind Recombinant Human CD8 alpha with a linear range of 31.25-341 ng/mL.

Shipping
Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage
Store at -20℃

Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

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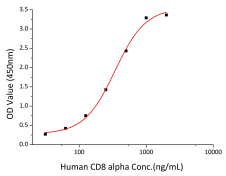
For research use only. Not for therapeutic or diagnostic purposes.
Please visit http://abclonal.com for a complete listing of recommended products.

Validation Data



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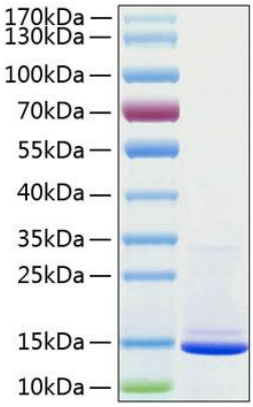

Recombinant Human Beta-2-microglobulin/B2M Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.