

B2M/beta 2-Microglobulin Protein, Cynomolgus, Recombinant (His)

General Information

Synonyms:	β -2 microglobulin;beta-2 microglobulin
Protein Construction:	Ile21-Met119
Species:	Cynomolgus/Rhesus macaque
Expression Host:	HEK293 Cells
Accession:	Q8SPW0
Molecular Weight:	12.7 kDa (Predicted); 13-15 kDa (Reducing conditions due to glycosylation)

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it.
Purity:	> 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC
Endotoxin:	< 1.0 EU/ μ g of the protein as determined by the LAL method.
Formulation:	Lyophilized from 0.22 μ m filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 μ g/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

The genetic and functional analysis of β 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.

Reference

Poulik MD,et al.(1979) Beta 2-Microglobulin: methods and clinical applications. CRC Ctiv Rev Clin Lab Sci. 10(3): 225-45.

Poulik MD,et al.(1975) Beta2-Microglobulins. Contemp Top Mol Immunol. 4: 157-204.

Berggard I. (1976) Beta2-Microglobulins: isolation, properties, and distribution. Fed Proc. 35(5): 1167-70.

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