

# Recombinant Human Beta-2 Microglobulin (B2M)

## Certificate of Analysis and Data Sheet

➤ <b>Source:</b> E.Coli	➤ <b>Catalog No.</b> PRO-337
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### ➤ **Background:**

An 11 kDa protein associated with the outer membrane of many cells including lymphocytes. It is the small subunit of the MHC class I molecule. Association with beta 2-microglobulin is generally required for the transport of class I heavy chains from the endoplasmic reticulum to the cell surface. Beta 2-microglobulin is present in small amounts in serum, csf, and urine of normal people, and to a much greater degree in the urine and plasma of patients with tubular proteinemia, renal failure, or kidney transplants.

### ➤ **Description :**

Recombinant Human B2M produced in E.Coli is a non-glycosylated polypeptide chain having a molecular mass of 11.76kDa.

### ➤ **Physical Appearance:**

Sterile Filtered clear solution.

### ➤ **Formulation:**

Recombinant Human Myoglobin, at a concentration of 1 mg/ml, phosphate-buffer saline (pH 7.4) and 0.05% NaN3.

### ➤ **Stability:**

Recombinant Beta2 Microglobulin ,although stable at 4C for 3 weeks, should be stored desiccated below -18 C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).

**Please avoid freeze-thaw cycles.**

### ➤ **Purity:**

Greater than 95.0% as determined by:

- (a) Analysis by RP-HPLC.
- (b) Anion-exchange FPLC.
- (c) Analysis by reducing and non-reducing SDS-PAGE Silver Stained gel.

### ➤ **Dimers and aggregates:**

Less than 1% as determined by silver-stained SDS-PAGE gel analysis. <

### ➤ **Endotoxin:**

Less than 0.1 ng/μg (IEU/μg) of Recombinant B2 Microglobulin.

### ➤ **Usage:**

This material is offered for research, laboratory or further evaluation purposes.