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Datasheet for ABIN7505482

**beta-2 Microglobulin Protein (AA 21-119) (His tag)**

## Overview

Quantity:	100 µg
Target:	beta-2 Microglobulin (B2M)
Protein Characteristics:	AA 21-119
Origin:	Rat
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This beta-2 Microglobulin protein is labelled with His tag.

## Product Details

Sequence:	Ile21-Met119
Characteristics:	A DNA sequence encoding the Rat B2M/β2-MG (P07151-1) (Ile21-Met119) was expressed with a polyhistidine tag at the N-terminus.
Purity:	>90 % as determined by reducing SDS-PAGE.

## Target Details

Target:	beta-2 Microglobulin (B2M)
Alternative Name:	B2M ( <a href="#">B2M Products</a> )
Background:	Background: β-2-Microglobulin (B2M) is a secreted protein with 1 Ig-like C1-type (immunoglobulin-like) domain which belongs to the beta-2-microglobulin family. B2M component of major histocompatibility complex (MHC) class I molecules, involved in the presentation of peptide antigens to the immune system. Polymers of beta 2-microglobulin can

## Target Details

be found in tissues from patients on long-term hemodialysis. B2M is a protein found on the surface of many cells and plentiful on the surface of white blood cells. Serum B2M concentration is increased in renal diseases, various malignant diseases and some inflammatory and autoimmune disorders. B2M may adopt the fibrillar configuration of amyloid in certain pathologic states. The capacity to assemble into amyloid fibrils is concentration dependent. B2M has been shown as a marker for monitoring inflammatory disease activity and it appears likely to have a destructive role in amyloidosis-related arthritis. B2M might be involved in the OA (osteoarthritis) pathogenesis. Defects in B2M are the cause of hypercatabolic hypoproteinemia. Affected individuals show marked reduction in serum concentrations of immunoglobulin and albumin, probably due to rapid degradation. B2M could be a potential therapeutic target in ovarian cancer.

Synonym: B2MG,Beta-2-Microglobulin,Beta 2 microglobin,Beta 2 microglobulin precursor,Beta chain of mhc class 1 proteins,Beta chain of MHC class I molecules,CDABP0092,Hdcma22p,IMD43

Molecular Weight: 11.6 kDa

Pathways: [TCR Signaling](#), [Regulation of Leukocyte Mediated Immunity](#), [Positive Regulation of Immune Effector Process](#)

## Application Details

Restrictions: For Research Use only

## Handling

Format: Lyophilized

Buffer: Lyophilized from sterile PBS, pH 7.4., 5 % trehalose, 5 % mannitol, 0.01 % tween-80.

Storage: 4 °C,-20 °C,-80 °C

Storage Comment: Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

Expiry Date: 12 months