

# Recombinant Human B2M Protein, Myc/DDK-tagged, C13 and N15-labeled

**Cat. No.** B2M-6236H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | B2M MS Standard C13 and N15-labeled recombinant protein (NP_004039) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.                                                                                                                                                                                                                                                                                                                                             |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Description</b>      | This gene encodes 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. |
| <b>Molecular Mass</b>   | 13.71 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>AA Sequence</b>      | MSRSVALAVLALLSLSGLEAIQRTPKIQVYSRHPAENGKSNFLNCYVSGFHPSDIEVD<br>LLKNGERIEKVEHSDLSFSKDWFSYLLYYTEFTPTEKDEYACRVNHVTLSPKIVKW<br>DRDMTRTRPLEQKLISEEDLAANDILDYKDDDDKV                                                                                                                                                                                                                                                                                                                 |
| <b>Purity</b>           | > 80% as determined by SDS-PAGE and Coomassie blue staining                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Stability</b>        | Stable for 3 months from receipt of products under proper storage and handling conditions.                                                                                                                                                                                                                                                                                                                                                                                    |

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|                       |                                                             |
|-----------------------|-------------------------------------------------------------|
| <b>Storage</b>        | Store at -80 centigrade. Avoid repeated freeze-thaw cycles. |
| <b>Concentration</b>  | 50 µg/mL as determined by BCA                               |
| <b>Storage Buffer</b> | 100 mM glycine, 25 mM Tris-HCl, pH 7.3.                     |

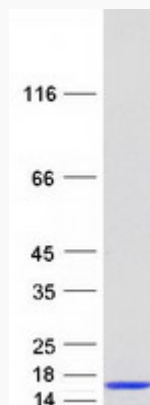
## GENE INFORMATION

|                        |                                                                                     |
|------------------------|-------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | B2M beta-2-microglobulin [ Homo sapiens (human) ]                                   |
| <b>Official Symbol</b> | B2M                                                                                 |
| <b>Synonyms</b>        | B2M; beta-2-microglobulin; beta-2-microglobin; beta chain of MHC class I molecules; |
| <b>Gene ID</b>         | 567                                                                                 |
| <b>mRNA Refseq</b>     | NM_004048                                                                           |
| <b>Protein Refseq</b>  | NP_004039                                                                           |
| <b>MIM</b>             | 109700                                                                              |
| <b>UniProt ID</b>      | P61769                                                                              |

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**SDS-PAGE**

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