

## Native Human Beta-2-Microglobulin

**Cat. No.** B2M-5366H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
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| <b>Product Overview</b> | Native human B2M was expressed in Human plasma.                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Source</b>           | Human Urine                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Description</b>      | HumanB2M produced in Human urine from patients with tubular proteinuria has aMW=12 kDa and pI of 5.6. Human Beta 2 microglobulin levels can rise eitherbecause its rate of synthesis has increased (e.g. in AIDS, malignantmonoclonal plasma cell dyscrasia, solid tumors and autoimmune disease) orbecause of impaired renal filtration (e.g. due to renal insufficiency, graftrejection or nephrotoxicity induced by post-transplantation immunosuppressivetherapy). |
| <b>Form</b>             | Sterile filtered andthen lyophilized from 0.02M NH <sub>4</sub> HCO <sub>3</sub> .                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Purity</b>           | ≥98.0%                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Storage</b>          | Human B2M althoughstable at room temperature for 3 weeks, should be stored between 2-4°C.                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Reconstitution</b>   | Centrifuge vialprior to opening. Reconstitute the lyophilized protein in phosphate buffer pH 7.0 containing 0.15 M NaCl.                                                                                                                                                                                                                                                                                                                                               |

### GENE INFORMATION

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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| <b>Gene Name</b>           | B2M beta-2-microglobulin [ Homo sapiens ]                                                                                                                                                                                                                                                                                                                                                                                                        |
| <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                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Chromosome Location</b> | 15q21-q22.2                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Pathway</b>             | Adaptive Immune System, organism-specific biosystem; Amyloids, organism-specific biosystem; Antigen Presentation: Folding, assembly and peptide loading of class I MHC, organism-specific biosystem; Antigen processing and presentation, organism-specific biosystem; Antigen processing and presentation, conserved biosystem; Antigen processing-Cross presentation, organism-specific biosystem; Class I MHC mediated antigen processing and |
| <b>Function</b>            | protein binding;                                                                                                                                                                                                                                                                                                                                                                                                                                 |