# Recombinant Human PSMA1 Protein, His-tagged

**Cat. No.** PSMA1-661H **Lot. No.** (See product label)

## SPECIFICATION

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| **Product Overview** | Recombinant Human PSMA1, transcript variant 2, fused with His tag at N-terminal was expressed in E. coli. |
| **Species** | Human |
| **Source** | E.coli |
| **Description** | The proteasome is a multicatalytic proteinase complex with a highly ordered ring-shaped 20S core structure. The core structure is composed of 4 rings of 28 non-identical subunits; 2 rings are composed of 7 alpha subunits and 2 rings are composed of 7 beta subunits. Proteasomes are distributed throughout eukaryotic cells at a high concentration and cleave peptides in an ATP/ubiquitin-dependent process in a non-lysosomal pathway. An essential function of a modified proteasome, the immunoproteasome, is the processing of class I MHC peptides. This gene encodes a member of the peptidase T1A family, that is a 20S core alpha subunit. Alternative splicing results in multiple transcript variants encoding distinct isoforms. |
| **Form** | 25mM Tris, pH8.0, 150 mM NaCl, 10% glycerol. Store at -80 centigrade. Avoid repeat ed freeze-thaw cycles. Stable for at least 3 months from receipt of products under pro per storage and handling conditions. |
| **Molecular Mass** | 28.9 kDa |
| **Purity** | > 80% as determined by SDS-PAGE and Coomassie blue staining |

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| **Concentration** | >50 ug/mL as determined by microplate BCA method |

## GENE INFORMATION

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| **Gene Name** | PSMA1 proteasome (prosome, macropain) subunit, alpha type, 1 [ Homo sapiens ] |
| **Official Symbol** | PSMA1 |
| **Synonyms** | PSMA1; proteasome (prosome, macropain) subunit, alpha type, 1; proteasome subunit alpha type-1; HC2; MGC1667; MGC14542; MGC14575; MGC14751; MGC21459; MGC22853; MGC23915; NU; PROS30; PROS-30; protein P30-33K; proteasome nu chain; macropain subunit C2; macropain subunit nu; proteasome subunit nu; 30 kDa prosomal protein; proteasome component C2; proteasome subunit, alpha-type, 1; multicatalytic endopeptidase complex subunit C2; |
| **Gene ID** | 5682 |
| **mRNA Refseq** | NM_001143937 |
| **Protein Refseq** | NP_001137409 |
| **MIM** | 602854 |
| **UniProt ID** | P25786 |

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