

## Recombinant Human PSMA1 Protein, His-tagged

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

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human PSMA1, transcript variant 2, fused with His tag at N-terminal was expressed in E. coli.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>Description</b>	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.
<b>Form</b>	25mM Tris, pH8.0, 150 mM NaCl, 10% glycerol. Store at -80 centigrade. Avoid repeated freeze-thaw cycles. Stable for at least 3 months from receipt of products under proper storage and handling conditions.
<b>Molecular Mass</b>	28.9 kDa
<b>Purity</b>	> 80% as determined by SDS-PAGE and Coomassie blue staining

 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

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

## GENE INFORMATION

**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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