

# Recombinant Human PSMA1

**Cat. No.** PSMA1-30393TH    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant full length human Proteasome 20S C2 protein, 30.2kDa.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>Description</b>	<p>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.</p>
<b>Form</b>	Liquid
<b>Storage buffer</b>	Preservative: None Constituents: 20% Glycerol, 50mM Tris acetate, 1mM EDTA, pH 7.5
<b>Storage</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
<b>Sequence Similarities</b>	Belongs to the peptidase T1A family.

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**Full Length**

Full L.

## 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;

**Gene ID**

5682

**mRNA Refseq**

NM\_001143937

**Protein Refseq**

NP\_001137409

**MIM**

602854

**Uniprot ID**

P25786

**Chromosome Location**

11p15.1

**Pathway**

APC/C-mediated degradation of cell cycle proteins, organism-specific biosystem; APC/C:Cdc20 mediated degradation of Securin, organism-specific biosystem; APC/C:Cdc20 mediated degradation of mitotic proteins, organism-specific biosystem; APC/C:Cdh1 mediated degradation of Cdc20 and other APC/C:Cdh1 targeted proteins in late mitosis/early G1, organism-specific biosystem; Activation of APC/C and APC/C:Cdc20 mediated degradation of mitotic proteins, organism-specific

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biosystem;

**Function**

RNA binding; peptidase activity; protein binding; threonine-type endopeptidase activity;

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