

Recombinant Human PSMA1

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

SPECIFICATION

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

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

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

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

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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