Recombinant Human PSMA1, T7-tagged

Cat. No. PSMA1-839H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human PSMA1 was produced in E.coli with a T7 tag at N-terminus. MW = 29556Da (1-263 aa).
Species	Human
Source	E.coli
ProteinLength	1-263 a.a.
Description	Proteasome subunit alpha type-1 is a protein that in humans is encoded by the PSMA1 gene. 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. Two alternative transcripts encoding different isoforms have been identified.
Form	10 mM Tris. pH 8.0. 0.1% Triton X-100. 0.002% NaN3. 10mM DTT.
Purity	90%.
Clonality	N/A.

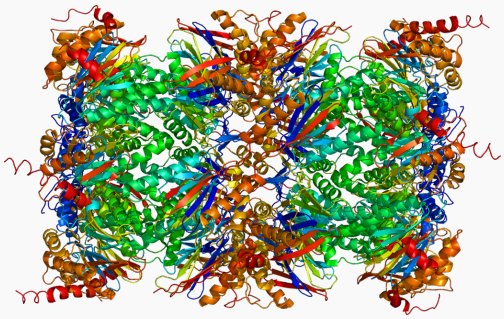
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Applications	MS. SDS.

GENE INFORMATION

Gene Name	PSMA1 proteasome (prosome, macropain) subunit, alpha type, 1 [Homo sapiens]
Synonyms	PSMA1; proteasome (prosome, macropain) subunit, alpha type, 1; NU; HC2; PROS30; MGC1667; MGC14542; MGC14575; MGC14751; MGC21459; MGC22853; MGC23915; proteasome subunit alpha type-1; 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; EC 3.4.25.1
Gene ID	5682
mRNA Refseq	NM_001143937
Protein Refseq	NP_001137409
MIM	602854
UniProt ID	P25786
Chromosome Location	11p15.1
Pathway	Proteasome
Function	RNA binding; peptidase activity; protein binding; threonine-type endopeptidase activity

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PDB rendering based on 1iru.	

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