Recombinant Human Proteasome (Prosome, Macropain) Subunit, Alpha Type, 6, His-tagged

Cat. No. PSMA6-4749H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human PSMA6 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Species	Human
Source	Human
Description	Proteasome subunit alpha type 6, also known as PSMA6, is a member of the peptidase T1A family, which is a 20S core alpha subunit. 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. PSMA6 is distributed throughout eukaryotic cells at a high concentration and cleave peptides in an ATP/ubiquitin-dependent process in a non-lysosomal pathway.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 40% glycerol, 0.1M NaCl
Molecular Weight	29.9 kDa (270aa), confirmed by MALDI-TOF
Purity	> 90% by SDS - PAGE
Concentration	0.25 mg/ml (determined by Bradford assay)

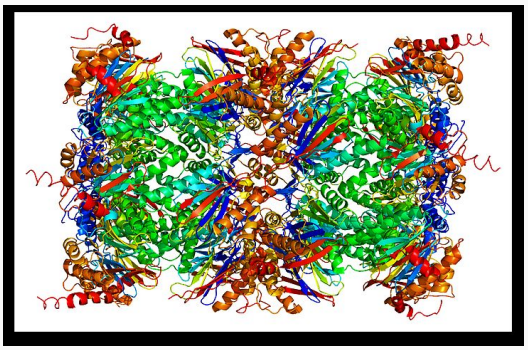
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Sequences of amino acids	MGSSHHHHHH SSGLVPRGSH MGSHMSRGSS AGFDRHITIF SPEGRLYQVE YAFKAINQGG LTSVAVRGKD CAVIVTQKKV PDKLLDSSTV THLFKITENI GCVMTGMTAD SRSQVQRARY EAANWKYKYG YEIPVDMLCK RIADISQVYT QNAEMRPLGC CMILIGIDEE QGPQVYKCDP AGYYCGFKAT AAGVKQTEST SFLEKKVKKK FDWTFEQTVE TAITCLSTVL SIDFKPSEIE VGVVTVENPK FRILTEAEID AHLVALAERD
Storage	Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.
Pathways	APC/C-mediated degradation of cell cycle proteins; Adaptive Immunity Signaling; Apoptosis; Assembly of the pre-replicative complex; Autodegradation of Cdh1 by Cdh1:APC/C; Autodegradation of the E3 ubiquitin ligase COP1; Cell Cycle Checkpoints; Cell Cycle, Mitotic; Cyclin A:Cdk2-associated events at S phase entry; DNA Replication Pre-Initiation; G1/S DNA Damage Checkpoints; G1/S Transition; HIV Infection; Host Interactions of HIV factors; Immune System

GENE INFORMATION

Gene Name	PSMA6 proteasome (prosome, macropain) subunit, alpha type, 6 [Homo sapiens]
Official Symbol	PSMA6
Synonyms	PSMA6; IOTA; p27K; PROS27; MGC2333; MGC22756; MGC23846; proteasome subunit alpha type-6; PROS-27; OTTHUMP00000178843; macropain iota chain; prosomal P27K protein; proteasome iota chain; macropain subunit iota; 27 kDa prosomal protein; proteasome subunit iota; multicatalytic endopeptidase complex iota chain; proteasome (prosome, macropain) subunit, alpha type, 6; Macropain iota chain; Multicatalytic endopeptidase complex iota chain; Proteasome iota chain; EC 3.4.25.1; P27K

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Gene ID	5687
mRNA Refseq	NM_002791
Protein Refseq	NP_002782
MIM	602855
UniProt ID	P60900
Chromosome Location	14q13
Function	NF-kappaB binding; RNA binding; endopeptidase activity; peptidase activity; protein binding; purine ribonucleoside triphosphate binding; threonine-type endopeptidase activity
PDBrendering based on 1iru.	

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