

Recombinant Human Proteasome Alpha 7 Subunit, His-tagged

Cat. No. PSMA7-122H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant PSMA7 protein was expressed in E.coli and purified by using conventional chromatography techniques, 30.0 kDa (268 aa).
Species	Human
Source	E.coli
Description	Proteasome alpha 7, PSMA7, is a multicatalytic proteinase complex which is characterized by its ability to cleave peptides with Arg, Phe, Tyr, Leu, and Glu adjacent to the leaving group at neutral or slightly basic pH. PSMA7, belonged to the peptidase T1A family, is a 20S core alpha subunit of proteasome. This protein was found to interact specifically with two subdomains of HIF-1alpha and inhibited the transactivation function of HIF-1alpha under both normoxic and hypoxia-mimicking conditions.
Sequences of amino acids	MGSSHHHHHH SSGLVPRGSHMSYDRAITVF SPDGHLFQVE YAQEAVKKGS TAVGVRGRDI VVLGVEKKSV AKLQDERTVR KICALDDNVC MAFAGLTADA RIVINRARVE CQSHRLTVED PVTVEYITRY IASLKQRYTQ SNGRRPFGIS ALIVGFDFDG TPRLYQTDPS GTYHAWKANA IGRGAKSVRE FLEKNYTDEA IETDDLTIKL VIKALLEVVQ SGGKNIELAV MRRDQSLKIL NP EEIEKYVA EIEKEKEENE KKKQKKAS
Formulation	Liquid. In 20 mM Tris-HCl buffer (pH 8.0) containing 20% glycerol, 0.1 M NaCl
Purity	> 90% by SDS - PAGE

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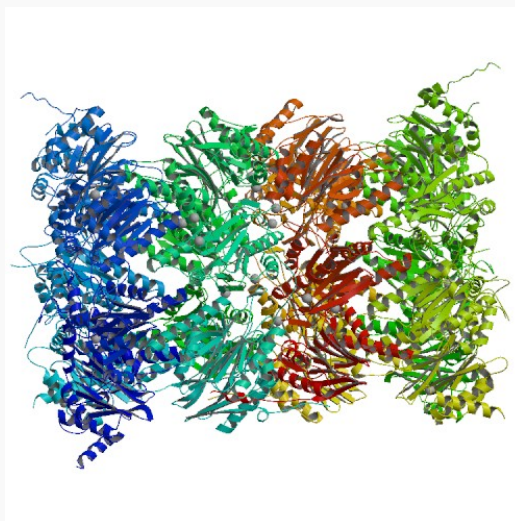
Concentration	1 mg/ml (determined by Bradford assay)
Storage	Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.
GENE INFORMATION	
Gene Name	PSMA7 proteasome (prosome, macropain) subunit, alpha type, 7 [Homo sapiens]
Synonyms	C6; EC 3.4.25.1; HSPC; MGC3755; OTTHUMP00000031449; RC6-1; XAPC7; Proteasome subunit RC6-1; Proteasome subunit XAPC7; proteasome (prosome, macropain) subunit, alpha type, 7; proteasome alpha 7 subunit; proteasome subunit alpha 4; PSMA7; 5` partial
Gene ID	5688
mRNA Refseq	NM_002792
Protein Refseq	NP_002783
MIM	606607
UniProt ID	O14818
Chromosome Location	20q13.33
Pathway	Proteasome; Apoptosis; Cell Cycle Checkpoints; Cell Cycle, Mitotic; DNA Replication; HIV Infection; Metabolism of amino acids; Signaling by Wnt
Function	identical protein binding; peptidase activity ;threonine-type endopeptidase activity

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