

Recombinant Human Proteasome (prosome, macropain) Subunit, Alpha Type, 8, His-tagged

Cat. No. PSMA8-1320H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human PSMA8 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Species	Human
Source	E.coli
Description	PSMA8 belongs to the peptidase T1A family. PSMA8 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. The proteasome has an ATP-dependent proteolytic activity. This subunit may be a testis-specific.
Form	Liquid. In 20 mM Tris-HCl buffer (pH 8.0) containing 1 mM DTT, 10% glycerol, 0.1 M NaCl.
Molecular Weight	30 kDa (270 aa) confirmed by MALDI-TOF
Purity	> 90 % by SDS-PAGE
Concentration	0.5 mg/ml (determined by Bradford assay)
Sequences of amino acids	MGSSHHHHHH SSGLVPRGSH MASRYDRAIT VFSPDGHLFQ VEYAQEAVKK GSTAVGIRGT NIVVLGVEKK SVAKLQDERT VRKICALDDH VCMAFAGLTA

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DARVVINRAR VECQSHKLTVEPVTVEYIT RFIATLKQKY TQSNRRPFG
 ISALIVGFDD DGISRLYQTD PSGTYHAWKA NAIGRSKTV REFLEKNYTE
 DAIASDSEAI KLAIKALLEV VQSGGKNIEL AIIRNQPLK MFSKKEVELY
 VTEIEKEKEE AEKKKSKKSV

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; APC/C:Cdc20 mediated degradation of Securin; Apoptosis; CDK-mediated phosphorylation and removal of Cdc6; Cell Cycle Checkpoints; DNA Replication; DNA Replication Pre-Initiation; Diurnally regulated genes with circadian orthologs; G1/S DNA Damage Checkpoints; Regulation of APC/C activators between G1/S and early anaphase; Regulation of mitotic cell cycle; SCF-beta-TrCP mediated degradation of Emi1

GENE INFORMATION

Gene Name PSMA8 proteasome (prosome, macropain) subunit, alpha type, 8 [Homo sapiens]

Official Symbol PSMA8

Synonyms PSMA8; proteasome (prosome, macropain) subunit, alpha type, 8; PSMA7L; MGC26605; proteasome subunit alpha type-7-like; NP_653263.2; EC 3.4.25.1

Gene ID 143471

mRNA Refseq NM_144662

Protein Refseq NP_653263

UniProt ID Q8TAA3

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Chromosome Location	18q11.2
Function	peptidase activity; threonine-type endopeptidase activity

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