

Recombinant Human Proteasome (prosome, macropain) Subunit, Alpha Type, 1, His-tagged

Cat. No. PSMA1-6883H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human PSMA1 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques. MW: 32 kDa.
Species	Human
Source	E.coli
ProteinLength	1-263aa
Description	PSMA1 is a prosomal protein involved in a nonlysosomal ATP/ubiquitin-dependent proteolytic pathway. The protein 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. This protein highly expressed in prostate epithelium.
Form	Liquid. In 20mM Tris-HCl buffer(pH 8.0) containing 10% glycerol, 2mM DTT, 0.15M NaCl.
Molecular Mass	32 kDa (286aa), confirmed by MALDI-TOF.
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSMFRNQYD NDVTWSPQG RIHQIEYAME AVKQGSATVG LKSKTHAVLV ALKRAQSELA AHQKKILHVD NHIGISIAGL TADARLLCNF MRQECLDSRF VFDRPLPVSF LVSLIGSKTQ IPTQRYGRRP

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YGVGLLIAGY DDMGPHIFQT CPSANYFDCR AMSIGARSQS ARTYLERHMS
EFMECNLNEL VKHGLRALRE TLP AEQDLTT KNV SIGIVGK DLEFTIYDDD
DVSPFLEGLE ERPQRKAQPA QPADEPAEKA DEPMEH

Purity >95% by SDS - PAGE

Applications SDS-PAGE

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.

Concentration 1 mg/ml (determined by Bradford)

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; 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;

Gene ID [5682](#)

mRNA Refseq [NM_001143937](#)

Protein Refseq [NP_001137409](#)

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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 biosystem; Activation of NF-kappaB in B Cells, organism-specific biosystem; Adaptive Immune System, organism-specific biosystem;
Function	RNA binding; peptidase activity; protein binding; threonine-type endopeptidase activity;