

Recombinant Human Proteasome Subunit, Beta Type-1, His-tagged

Cat. No. PSMB1-128H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human PSMB1 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography, 27.7 kDa (250aa).
Species	Human
Source	E.coli
Description	PSMB1 (Proteasome subunit, beta type-1) encodes a member of the proteasome B-type family, also known as the T1B family, that is a 20S core beta subunit. This is tightly linked to the TBP (TATA-binding protein) gene in human and in mouse, and is transcribed in the opposite orientation in both species. The main function of PSMB1 is to degrade unnecessary or damaged proteins by proteolysis.
Sequences of amino acids	MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSHMFS PYVFNGGTIL AIAGEDFAIV ASDTRLSEGF SIHTRDSPKC YKLTDKTVIG CSGFHGDCLT LTKIIEARLK MYKHSNNKAM TTGAIAAMLS TILYSRRFFP YYVYNIIGGL DEEGKGAVYS FDPVGSYQRD SFKAGGSASA MLQPLLDNQV GFKNMQNVEH VPLSLDRAMR LVKDVFISAA ERDVYTG DAL RICIVTKEGI REETVSLRKD
Formulation	Liquid. In 20 mM Tris-HCl buffer (pH 8.0) containing 1 mM DTT, 10% glycerol
Purity	> 95% by SDS - PAGE
Concentration	1 mg/ml (determined by Bradford assay)

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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

PSMB1 proteasome (prosome, macropain) subunit, beta type, 1 [Homo sapiens]

Synonyms

EC 3.4.25.1; FLJ25321; HC5; KIAA1838; PMSB1; PSC5; Macropain subunit C5; Multicatalytic endopeptidase complex subunit C5; Proteasome component C5; Proteasome gamma chain; proteasome (prosome, macropain) subunit, beta type, 1; proteasome beta 1 subunit; proteasome subunit HC5; PSMB1; Proteasome subunit beta type-1

Gene ID

5689

mRNA Refseq

NM_002793

Protein Refseq

NP_002784

MIM

602017

UniProt ID

P20618

Chromosome Location

6q27

Pathway

Proteasome; Apoptosis; Cell Cycle Checkpoints; Cell Cycle, Mitotic; DNA Replication; HIV Infection; Metabolism of amino acids; Signaling by Wnt

Function

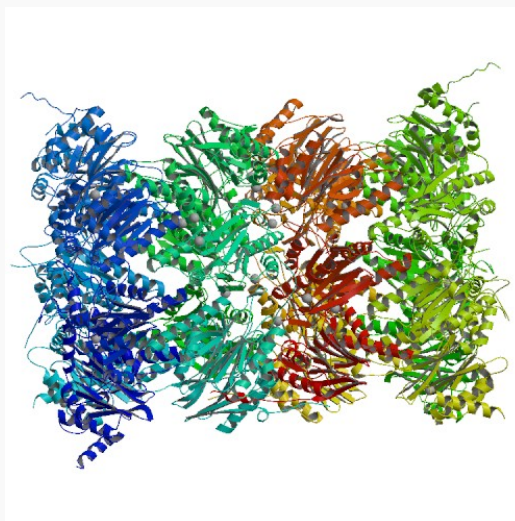
peptidase activity; protein binding; threonine-type endopeptidase activity

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PDBrendering based
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