

Recombinant Human Proteasome (prosome, macropain) Subunit, Beta Type, 6, His-tagged

Cat. No. PSMB6-1566H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human PSMB6 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
ProteinLength	35-239 aa
Description	PSMB6 is a member of the proteasome B-type family, also known as the T1B family that is a 20S core beta subunit in the proteasome. This catalytic subunit is not present in the immunoproteasome and is replaced by PSMB9. 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.
Form	Liquid. In 20mM Tris-HCl buffer(pH 8.0) containing 10% glycerol, 1mM DTT, 0.15M NaCl.
Molecular Weight	24.2 kDa (226aa), confirmed by MALDI-TOF.
Purity	>85% by SDS-PAGE
Concentration	1 mg/ml (determined by Bradford assay)

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Sequences of amino acids	MGSSHHHHHH SSGLVPRGSH MTTIMAVQFD GGVVLGADSR TTTGSYIANR VTDKLTPIHD RIFCCRSRSA ADTQAVADAV TYQLGFHSIE LNEPPLVHTA ASLFKEMCYR YREDLMAGII IAGWDPQEGG QVYSVPMGGM MVRQSFAIGG SGSSYIYGIV DATYREGMTK EECLQFTANA LALAMERDGS SGGVIRLAAI AESGVERQVL LGDQIPKFAV ATLPPA
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; Assembly of the pre-replicative complex; Autodegradation of Cdh1 by Cdh1:APC/C; CDK-mediated phosphorylation and removal of Cdc6; CDT1 association with the CDC6:ORC:origin complex; Cell Cycle Checkpoints; Cyclin A:Cdk2-associated events at S phase entry; DNA Replication; G1/S DNA Damage Checkpoints; p53-Independent G1/S DNA damage checkpoint; Vpu mediated degradation of CD4; Ubiquitin-dependent degradation of Cyclin D1
GENE INFORMATION	
Gene Name	PSMB6 proteasome (prosome, macropain) subunit, beta type, 6 [Homo sapiens]
Official Symbol	PSMB6
Synonyms	PSMB6; proteasome (prosome, macropain) subunit, beta type, 6; Y; Multicatalyticendopeptidase complex delta chain; DELTA; Macropain delta chain; Proteasome subunit Y; Proteasome delta chain; LMPY; proteasome subunit beta 6; proteasome subunit beta type-6; proteasome subunit delta; MGC5169; proteasome catalytic subunit 1; PSY large multifunctional protease Y; EC 3.4.25.1; OTTHUMP00000115982

Gene ID	5694
mRNA Refseq	NM_002798
Protein Refseq	NP_002789
MIM	600307
UniProt ID	P28072
Chromosome Location	17p13
Function	endopeptidase activity; peptidase activity; threonine-type endopeptidase activity
PDBrendering based on 1iru.	