

Recombinant Human Proteasome (prosome, macropain) Subunit, Beta Type, 10, His-tagged

Cat. No. PSMB10-6864H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human PSMB10 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography. MW: 26.9 kDa.
Species	Human
Source	E.coli
ProteinLength	40-273aa
Description	PSMB10 is a member of the proteasome B-type family, also known as the T1B family, which is a 20S core beta subunit. 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. 20mM Tris-HCl buffer (pH8.0) containing 40% glycerol, 0.1M NaCl.
Molecular Mass	26.9 kDa (255aa), confirmed by MALDI-TOF.
AA Sequence	MGSSHHHHHH SSGLVPRGSH MTTIAGLVFQ DGVILGADTR ATNDSVVADK SCEKIHFIAP KIYCCGAGVA ADAEMTTRMV ASKMELHALS TGREPRVATV TRILRQTLFR YQGHVGASLI VGGVDLTGPQ LYGVHPHGSY SRLPFTALGS GQDAALAVLE DRFQPNMTLE AAQGLLVEAV TAGILGDLGS GGNVDACVIT KTGAKLLRTL SSPTPEVKRS GRYHFVPGTT AVLTQTVKPL TLELVEETVQ AMEVE

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Purity	>90% 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	0.25 mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name	PSMB10 proteasome (prosome, macropain) subunit, beta type, 10 [Homo sapiens]
Official Symbol	PSMB10
Synonyms	PSMB10; proteasome (prosome, macropain) subunit, beta type, 10; MECL1; proteasome subunit beta type-10; beta2i; LMP10; MGC1665; proteasome MECL-1; macropain subunit MECL-1; proteasome subunit MECL1; proteasome subunit beta 7i; proteasome subunit beta-2i; low molecular mass protein 10; proteasome catalytic subunit 2i; multicatalytic endopeptidase complex subunit MECL-1; FLJ00366;
Gene ID	5699
mRNA Refseq	NM_002801
Protein Refseq	NP_002792
MIM	176847
UniProt ID	P40306

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Chromosome Location	16q22.1
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	peptidase activity; threonine-type endopeptidase activity;