

Recombinant Human PSMB2, His-tagged

Cat. No. PSMB2-30366TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length protein, corresponding to amino acids 1-201 of Human Proteasome subunit beta type 2 with N terminal His tag, 21kDa.
Species	Human
Source	E.coli
ProteinLength	1-201 a.a.
Description	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. Proteasomes are distributed throughout eukaryotic cells at a high concentration and cleave peptides in an ATP/ubiquitin-dependent process in a non-lysosomal pathway. An essential function of a modified proteasome, the immunoproteasome, is the processing of class I MHC peptides. This gene encodes a member of the proteasome B-type family, also known as the T1B family, that is a 20S core beta subunit. Multiple alternatively spliced transcript variants encoding distinct isoforms have been found for this gene.
Conjugation	HIS
Form	Lyophilised:Reconstitute with 115 µl aqua dest.
Storage buffer	Preservative: NoneConstituents: 0.5% Trehalose, 6M Urea, 100mM Sodium

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	phosphate, 10mM Sodium chloride, pH 4.5
Storage	Shipped at 4°C. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	MEYLIGIQGPDYVLVASDRVAASNIVQMKDDHDKMFKMSE KILLLCVGEAGDTVQFA EYIQKNVQLYKMRNGYELSPT AAANFTRRNLDCLRSRTPYHVNLLLAGYDEHEGP ALY YMDYLAALAKAPFAAHGYGAFLTLSILDRIYYTPTISRERAVELLRKCLEELQKRFI LNLPTFSVRIIDKNGIHDLN SFPKQGS
Sequence Similarities	Belongs to the peptidase T1B family.
Full Length	Full L.

GENE INFORMATION

Gene Name	PSMB2 proteasome (prosome, macropain) subunit, beta type, 2 [Homo sapiens]
Official Symbol	PSMB2
Synonyms	PSMB2; proteasome (prosome, macropain) subunit, beta type, 2; proteasome subunit beta type-2; HC7 I;
Gene ID	5690
mRNA Refseq	NM_001199779
Protein Refseq	NP_001186708
MIM	602175
Uniprot ID	P49721

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Chromosome Location	1p34.2
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;
Function	peptidase activity; threonine-type endopeptidase activity;

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