

Recombinant Human PSMB2, His-tagged

Cat. No. PSMB2-31209TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length, Human Proteasome subunit beta type 2 (amino acids 1-201) with an N terminal His tag, predicted Mwt: 24.9 kDa inclusive of tags.
Species	Human
Source	E.coli
ProteinLength	201 amino acids
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
Molecular Weight	24.900kDa inclusive of tags
Form	Liquid

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Purity	>90% by SDS-PAGE
Storage buffer	pH: 8.00 Constituents: 30% Glycerol, 0.02% DTT, 0.32% Tris HCl, 0.58% Sodium chloride
Storage	Store at +4°C short term (1-2 weeks). Aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Sequences of amino acids	MGSSHHHHHHSSGLVPRGSHMEYLIQGPDYVLVASDRV AASNIVQMKDDHDKM FKMSEKILLLCVGEAGDTVQFAEYI QKNVQLYKMRNGYELSPTAAANFTRRNADCL RSRTPYHV NLLLAGYDEHEGPALYYMDY LAALAKAPFAAHGYGAFTLSILDRIYT PTISRERAVELL RKCLEELQKR FILNLPTFSVRIIDKNGIHDLDNISFPKQG S
Sequence Similarities	Belongs to the peptidase T1B family.

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

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MIM	602175
Uniprot ID	P49721
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;