

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	<p>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.</p>
Conjugation	HIS
Form	Lyophilised:Reconstitute with 115 µl aqua dest.
Storage buffer	Preservative: NoneConstituents: 0.5% Trehalose, 6M Urea, 100mM Sodium

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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 AAANFTRRNLADCLRSRTPYHVNLLLAGYDEHEGP
ALY YMDYLAALAKAPFAAHGYGAFLLSILDRIYPTISRERAVELLRKCLEELQKRFI
LNLPTFSVRIIDKNGIHDL DNI 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

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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;

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA