

Recombinant Human PSMB4, His-tagged

Cat. No. PSMB4-30367TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human Proteasome subunit beta type 4 (amino acids 46-264) with an N terminal His tag; 240aa, 26.6kDa.
Species	Human
Source	E.coli
ProteinLength	219 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.
Conjugation	HIS
Molecular Weight	26.600kDa inclusive of tags
Form	Liquid

 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

Purity	>90% by SDS-PAGE
Storage buffer	pH: 8.00 Constituents: 0.32% Tris HCl, 30% Glycerol, 0.02% DTT, 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	MGSSHHHHHHSSGLVPRGSHMTQNPMVTGTSVLGVKFEGG VVIAADMLGSYGSL ARFRNISIRIMRVNNTMLGASGDYAD FQYLKQVLGQMVIDEELLGDGHSYSPRAIH SWLTRAMYSR RSKMNPLWNTMVIGGYADGESFLGYVDMLGVAYEAPSLAT GYGA YLAQPLLREVLEKQPVLSQTEARDLVERCMRVLYR DARSYNRFQIATVTEKGVEIE GPLSTETNWDIAHMISGFE
Sequence Similarities	Belongs to the peptidase T1B family.

GENE INFORMATION

Gene Name	PSMB4 proteasome (prosome, macropain) subunit, beta type, 4 [Homo sapiens]
Official Symbol	PSMB4
Synonyms	PSMB4; proteasome (prosome, macropain) subunit, beta type, 4; proteasome subunit beta type-4; HN3; PROS26;
Gene ID	5692
mRNA Refseq	NM_002796
Protein Refseq	NP_002787

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MIM	602177
Uniprot ID	P28070
Chromosome Location	1q21
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	lipopolysaccharide binding; peptidase activity; threonine-type endopeptidase activity;