

Recombinant Human Proteasome (Prosome, Macropain) Subunit, Beta Type, 4, His-tagged

Cat. No. PSMB4-1541H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant human PSMB4 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Species	Human
Source	Human
Description	Proteasome subunit beta type-4, also known as PSMB4, belonged to the peptidase T1B family. The 20S Proteasome chamber contains alpha subunits (which are structural) and beta subunits (which are predominantly catalytic). The outer two rings in the proteasome consist of seven alpha subunits each and the inner two rings each consist of seven beta subunits. PSMB4 is a beta subunit of the 20S Proteasome. It is distributed throughout eukaryotic cells at a high concentration and cleaves peptides in an ATP/ubiquitin-dependent process in a non-lysosomal pathway.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 30% glycerol, 0.1M NaCl
Molecular Weight	26.6 kDa (240aa), confirmed by MALDI-TOF
Purity	> 90% by SDS - PAGE
Concentration	0.5 mg/ml (determined by Bradford assay)

 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

Sequences of amino acids	MGSSHHHHH SSGLVPRGSH MTQNPMTGT SVLGVKFEGG VVIAADMLGS YGSLARFRNI SRIMRVNNST MLGASGDYAD FQYLKQVLGQ MVIDEELLGD GHSYSPRAIH SWLTRAMYSR RSKMNPLWNT MVIGGYADGE SFLGYVDMLG VAYEAPSLAT GYGAYLAQPL LREVLEKQPV LSQTEARDLV ERCMRVLYYR DARSYNRFQI ATVTEKGVEI EGPLSTETNW DIAHMISGFE
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.
Pathways	Proteasome
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; HN3; HsN3; PROS26; PROS-26; proteasome subunit beta type-4; hsBPROS26; proteasome chain 3; macropain beta chain; proteasome beta chain; 26 kDa prosomal protein; proteasome subunit HsN3; proteasome subunit, beta type, 4; multicatalytic endopeptidase complex beta chain; EC 3.4.25.1
Gene ID	5692
mRNA Refseq	NM_002796
Protein Refseq	NP_002787
MIM	602177

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UniProt ID	P28070
Chromosome Location	1q21
Function	lipopolysaccharide binding; peptidase activity; threonine-type endopeptidase activity

PDBrendering based on 1iru.

