

Recombinant Human PSMB1 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. PSMB1-1912H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	PSMB1 MS Standard C13 and N15-labeled recombinant protein (NP_002784) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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. This gene is tightly linked to the TBP (TATA-binding protein) gene in human and in mouse, and is transcribed in the opposite orientation in both species.
Molecular Mass	26.5 kDa
AA Sequence	MLSSTAMYSAAGRDLGMEPHRAAGPLQLRFSPYVFNGGTILAIAGEDFAIVASDTRL SEGFSIHTRDSPKCYKLTDKTVIGCSGFHGDCLTLTKIIEARLKMYKHSNNKAMTTGA

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IAAMLSTILYSRRFFPYVYNIIGGLDEEGKGAVYSFDPVGSYQRDSFKAGGSASAML
QPLLDNQVGFKNMQNVEHVPLSLDRAMRLVKDVFISAAERDVYTGDALRICIVTKEGI
REETVSLRKDTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name PSMB1 proteasome 20S subunit beta 1 [Homo sapiens (human)]

Official Symbol PSMB1

Synonyms PSMB1; proteasome (prosome, macropain) subunit, beta type, 1; proteasome subunit beta type-1; HC5; PMSB1; macropain subunit C5; proteasome gamma chain; proteasome subunit HC5; proteasome component C5; proteasome beta 1 subunit; multicatalytic endopeptidase complex subunit C5; PSC5; FLJ25321; KIAA1838;

Gene ID 5689

mRNA Refseq NM_002793

Protein Refseq NP_002784

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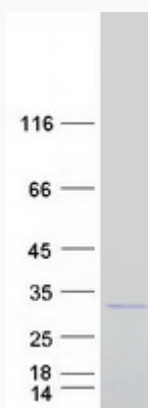
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MIM 602017

UniProt ID P20618

SDS-PAGE



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