

## Product datasheet for PH303204

### PSMD2 (NM\_002808) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	PSMD2 MS Standard C13 and N15-labeled recombinant protein (NP_002799)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC203204
Predicted MW:	100.2 kDa
Protein Sequence:	>RC203204 protein sequence Red=Cloning site Green=Tags(s)

MEEGGRDKAPVQPQQSPAAAPGGTDEKPSGKERRDAGDKDKEQELSEEDKQLQDELEMLVERLGEKDTSL  
YRPALEELRRQIRSSTTSMTSVPKPLKFLRPHYGKLKEIYENMAPGENKRFAADII SVLAMTMSGERECL  
KYRLVGSQEELASWGHEYVRHLAGEVAKEWQELDDAEKVQREPLLT LKVEIVPYNMAHNAEHEACDLLME  
IEQVDMLEKIDENAYAKVCLYL TSCVNYVPEPENSALLRCALGVFRKFSRFPALRLALMLNDMELVED  
IFTSCDKVVVQKQMAFMLGRHGVFLELSEVVEEYEDL TEIMSNVQLNSNFLALARELDIMEPKVPDDIYK  
THLENNRFGGSGSQVDSARMNLASSFVNGFVNAAFGQDKLL TDDGNKWL YKNKDHGML SAAASLGMILLW  
DVDGGLTQIDKYL YSSEDIKSGALLACGIVNSGVRNECDPALALLSDYVLHNSNTMRLGSI FGLGLAYA  
GSNREDVLTLLLPVMGDSKSSMEVAGVTALACGMIAVGSCNGDVTSTILQTIMEKSETELKDTYARWLP  
LGLNLHLGKGEATEAILAALEVSEPFRAFANTLVDCAYAGSGNVLKVQQLLHICSEHFDSKEKEEDKD  
KKEKDKDKKEAPADMGAHQGVAVLGI ALIAMGEEIGAEMALRTFGHLLRYGEPTLRRAVPLALALISVS  
NPRLNILDTL SKF SHDADPEVSYYSIFAMGMVSGTNNARLAAML RQLAQYHAKDPNNLFMVRLAQLGTH  
LGKGTLLCPYHSDRQLMSQVAVAGLLTVLVSFLDVRNIILGKSHYVLYGLVAAMQPRMLVTFDEELRPL  
PVSVRVGQAVDVVGQAGPKTITGFQTHTPVLLAHGERAELATEEFLPVTPILEGFVILRKNPNYDL

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>4</sub> ]-L-Arginine and [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>2</sub> ]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.



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RefSeq: [NP\\_002799](#)

RefSeq Size: 3076

RefSeq ORF: 2724

Synonyms: P97; RPN1; S2; TRAP2

Locus ID: 5708

UniProt ID: [Q13200](#)

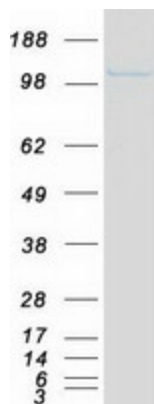
Cytogenetics: 3q27.1

**Summary:** The 26S proteasome is a multicatalytic proteinase complex with a highly ordered structure composed of 2 complexes, a 20S core and a 19S regulator. The 20S core 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. The 19S regulator is composed of a base, which contains 6 ATPase subunits and 2 non-ATPase subunits, and a lid, which contains up to 10 non-ATPase 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 one of the non-ATPase subunits of the 19S regulator lid. In addition to participation in proteasome function, this subunit may also participate in the TNF signalling pathway since it interacts with the tumor necrosis factor type 1 receptor. A pseudogene has been identified on chromosome 1. Alternative splicing results in multiple transcript variants of this gene. [provided by RefSeq, Jul 2013]

**Protein Families:** Druggable Genome

**Protein Pathways:** Proteasome

### Product images:



Coomassie blue staining of purified PSMD2 protein (Cat# [TP303204]). The protein was produced from HEK293T cells transfected with PSMD2 cDNA clone (Cat# [RC203204]) using MegaTran 2.0 (Cat# [TT210002]).