

## Product datasheet for PH310046

### PSMD4 (NM\_002810) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	PSMD4 MS Standard C13 and N15-labeled recombinant protein (NP_002801)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC210046
Predicted MW:	40.7 kDa
Protein Sequence:	>RC210046 protein sequence Red=Cloning site Green=Tags(s)

MVLESTMVCVDNSEYMRNGDFLPTRLQAQQDAVNI VCHSKTRSNPENNVGLITLANDCEVLTTLTPDTGR  
ILSKLHTVQPKGITFCTGIRVAHLALKHRQGNHMR IIAFVGSPVEDNEKDLVKLAKRLKKEKVNVDI  
INFGEEEVNTEKLTAFVNTLNGKDGTSGLVTVPPGPSLADALISSPILAGEGGAMLGLGASDFEFGVDP  
SADPELALALRVSMEEQRQRQEEEEARRAAAA SAAEAGIATTGTEDSDDALLKMTISQQEFGRTGLPDLSS  
MTEEEQIAYAMQMSLQGA EFGQAESADIDASSAMDTSEPAKEEDDYDVMQDPEFLQSVLENLPGVDPNNE  
AIRNAMGSLASQATKDGKKDKKEEDKK

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.
RefSeq:	<u><a href="#">NP_002801</a></u>
RefSeq Size:	1332
RefSeq ORF:	1131
Synonyms:	AF; AF-1; ASF; MCB1; pUB-R5; Rpn10; S5A
Locus ID:	5710



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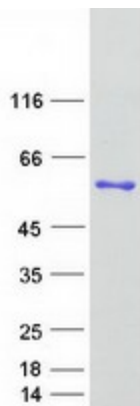
UniProt ID: [P55036](#)

Cytogenetics: 1q21.3

**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. Pseudogenes have been identified on chromosomes 10 and 21. [provided by RefSeq, Jul 2008]

**Protein Pathways:** Proteasome

### Product images:



Coomassie blue staining of purified PSMD4 protein (Cat# [TP310046]). The protein was produced from HEK293T cells transfected with PSMD4 cDNA clone (Cat# [RC210046]) using MegaTran 2.0 (Cat# [TT210002]).