

## Product datasheet for PH305917

### PSMA3 (NM\_002788) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	PSMA3 MS Standard C13 and N15-labeled recombinant protein (NP_002779)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC205917
Predicted MW:	28.5 kDa
Protein Sequence:	>RC205917 protein sequence Red=Cloning site Green=Tags(s)  MSSIGTGYDLSASTFSPDGRVVFQVEYAMKAVENTSSTAIGIRCKDGVVFGVEKLVLSKLYEEGSKRFLFNV DRHVGMAVAGLLADARSLADMAREEASNFRSNFGYNIPLKHLADRVAMYVHAYTLYSAVRPFGCSFMLGS YSVNDGAQLYMIDPSGVSYGYWGCAIGKARQAAKTEIEKLMKEMTCRDIVKEVAKIIYIVHDEVKDKAF ELELSWVGELTNGRHEIVPKDIREEAKEYAKESLKEEDESDDDNM  SGPTRTRPLEQKLI 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:	<a href="#">NP_002779</a>
RefSeq Size:	1014
RefSeq ORF:	765
Synonyms:	HC8; PSC3
Locus ID:	5684
UniProt ID:	<a href="#">P25788</a> , <a href="#">A0A140VK43</a>



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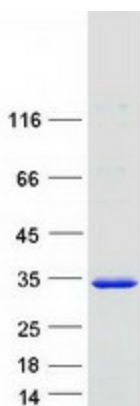
Cytogenetics: 14q23.1

**Summary:** 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 peptidase T1A family, that is a 20S core alpha subunit. Two alternative transcripts encoding different isoforms have been identified. [provided by RefSeq, Jul 2008]

**Protein Families:** Druggable Genome, Protease, Stem cell - Pluripotency

**Protein Pathways:** Proteasome

### Product images:



Coomassie blue staining of purified PSMA3 protein (Cat# [TP305917]). The protein was produced from HEK293T cells transfected with PSMA3 cDNA clone (Cat# [RC205917]) using MegaTran 2.0 (Cat# [TT210002]).