

Product datasheet for PH301251

PSMC5 (NM_002805) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	PSMC5 MS Standard C13 and N15-labeled recombinant protein (NP_002796)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC201251
Predicted MW:	45.6 kDa
Protein Sequence:	>RC201251 protein sequence Red=Cloning site Green=Tags(s)
	MALDGPEQMELEEGKAGSGLRQYYLSKIEELQLIVNDKSQNLRRLLQAQRNELNAKVRLREELQLLQEQG SYVGEVVRAMDKKKVLVKVHPEGKFVVDVDKNIDINDVTPNCRVALRNDSTLHKILPNKVDPLVSLMMV EKVPDSTYEMIGGLDKQIKEIKEVIELPVKHPELFEALGIAQPKGVLLYGPPGTGKTLARAVAHHTDCT FIRVSGSELVQKFIGEGARMVRELFVMAREHAPSIIFMDEIDSIGSSRLEGGSGGDSEVQRTMLELLNQL DGFEATKNIKVIMATNRIDILDSALLRPGRIDRKIEFPPPNEEARLDILKIHSRKMNLTRGINLRKIAEL MPGASGAEVKGVCTEAGMYALRERRVHVTQEDFEMAVAKVMQKDEKNMSIKKLWK
	TRTRPLEQKLISEEDLAANDILDYKDDDDKV
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- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-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:	NP_002796
RefSeq Size:	1372
RefSeq ORF:	1218
Synonyms:	p45; p45/SUG; RPT6; S8; SUG-1; SUG1; TBP10; TRIP1
Locus ID:	5705



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UniProt ID: [P62195](#), [A0A140VJS3](#)

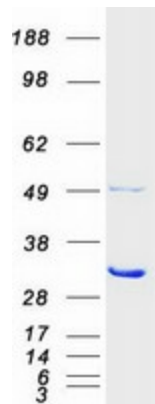
Cytogenetics: 17q23.3

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 ATPase subunits, a member of the triple-A family of ATPases which have a chaperone-like activity. In addition to participation in proteasome functions, this subunit may participate in transcriptional regulation since it has been shown to interact with the thyroid hormone receptor and retinoid X receptor-alpha. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Nov 2010]

Protein Families: Druggable Genome

Protein Pathways: Proteasome

Product images:



Coomassie blue staining of purified PSMC5 protein (Cat# [TP301251]). The protein was produced from HEK293T cells transfected with PSMC5 cDNA clone (Cat# [RC201251]) using MegaTran 2.0 (Cat# [TT210002]).