

Product datasheet for PH301790

PSMC3 (NM_002804) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	PSMC3 MS Standard C13 and N15-labeled recombinant protein (NP_002795)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC201790
Predicted MW:	49 kDa
Protein Sequence:	>RC201790 representing NM_002804 Red=Cloning site Green=Tags(s)

MNLLPNIESPVTRQEKMATVWDEAEQDGIGEEVLK MSTEEIIQRTRLLDSEIKIMKSEVLRVTHELQAMK
DKIKENSEKIKVNKTLPLYLSNVIELLDVPNDQEEDGANIDLDSQRKKGKCAVIKTSTRQTYFLPVIGLV
DAEKLKPGDLVGVNKDSYLILETLPTHEYDSRVKAMEVDERPTEQYSDIGGLDKQIQELVEAIVLPMNHKE
KFENLGIQPPKGVLMYGPPTGKTLARACAAQTKATFLKLAGPQLVQMFIGDGAKLVRDAFALAKEKAP
SIIFIDELDAIGTKRFDSEKAGDREVQRTMLELLNQLDGFQPNQVQVIAATNRVDILDPALLRSGRLDR
KIEFPMPNEEARARIMQIHSRKMNVSPDVNYEELARCTDDFNGAQCKAVCVEAGMIALRRGATELTHEDY
MEGILEVQAKKKANLQYYA

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- 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:	<u>NP_002795</u>
RefSeq Size:	1618
RefSeq ORF:	1317
Synonyms:	DCIDP; RPT5; TBP1



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Locus ID: 5702

UniProt ID: [P17980](#), [A0A140VK42](#)

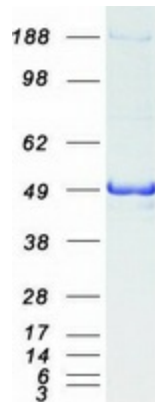
Cytogenetics: 11p11.2

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 that have chaperone-like activity. This subunit may compete with PSMC2 for binding to the HIV tat protein to regulate the interaction between the viral protein and the transcription complex. A pseudogene has been identified on chromosome 9. [provided by RefSeq, Jul 2008]

Protein Families: Druggable Genome, Transcription Factors

Protein Pathways: Proteasome

Product images:



Coomassie blue staining of purified PSMC3 protein (Cat# [TP301790]). The protein was produced from HEK293T cells transfected with PSMC3 cDNA clone (Cat# [RC201790]) using MegaTran 2.0 (Cat# [TT210002]).