

Recombinant Human PSMD4 Protein, MYC/DDK-tagged, C13 and N15-labeled

Cat. No. PSMD4-018H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	PSMD4 MS Standard C13 and N15-labeled recombinant protein (NP_002801) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	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.
Molecular Mass	40.7 kDa
AA Sequence	MVLESTMVCVDNSEYMRNGDFLPTRLQAQQDAVNIVCHSKTRSNPENNVGLITLAN DCEVLTTLTPTDGRILSKLHTVQPKGKITFCTGIRVAHLALKHRQGKNHKMRIIAFVGS

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PVEDNEKDLVKLAKRLKKEKVNVDIINFGEVEVNTTEKLTAFVNTLNGKDGTGSHLVTV
PPGPSLADALISSPILAGEGGAMLGLGASDFEFGVDPSADPELALALRVSMEEQRQR
QEEEEARRAAAASAAEAGIATTGTEDSDDALLKMTISQQEFGRTGLPDLSSMTEEEQI
AYAMQMSLQGAIEFGQAESADIDASSAMDTSEPAKEEDDYDVMQDPEFLQSVLENL
PGVDPNNEAIRNAMGSLASQATKDGKKDKKEEDKKTRTRPLEQKLISEEDLAANDIL
DYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name PSMD4 proteasome 26S subunit, non-ATPase 4 [Homo sapiens (human)]

Official Symbol PSMD4

Synonyms PSMD4; proteasome 26S subunit, non-ATPase 4; AF; AF-1; ASF; MCB1; pUB-R5; Rpn10; S5A; 26S proteasome non-ATPase regulatory subunit 4; 26S proteasome regulatory subunit S5A; S5a/antiseecretory factor protein; angiocidin; antiseecretory factor 1; multiubiquitin chain-binding protein; proteasome (prosome, macropain) 26S subunit, non-ATPase, 4

Gene ID 5710

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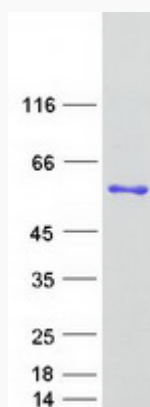
mRNA Refseq [NM_002810](#)

Protein Refseq [NP_002801](#)

MIM [601648](#)

UniProt ID [P55036](#)

SDS-PAGE



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