

Recombinant Human PSMD4, His-tagged

Cat. No. PSMD4-183H Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant Human 26S Proteasome Non-ATPase Regulatory Subunit 4/PSMD4 is produced by our mammalian expression system in human cells. The target protein is expressed with sequence (Val2-Lys377) of Human PSMD4 fused with a 6His tag at the C-terminus.

Species Human

Source HEK293

ProteinLength 2-377 a.a.

Description 26S Proteasome Non-ATPase Regulatory Subunit 4 (PSMD4) belongs to the proteasome subunit S5A family. Proteasomes are widely distributed in eukaryotic cells at a high concentrations and cleave peptides in an ATP/ubiquitin-dependent process in a non-lysosomal pathway. PSMD4 contains two UIM (ubiquitin-interacting motif) repeats and one VWFA domain. PSMD4 is composed of a core protease, known as the 20S proteasome, capped at one or both ends by the 19S regulatory complex (RC). PSMD4 binds and presumably selects ubiquitin-conjugates for destruction, displaying selectivity for longer polyubiquitin chains. PSMD4 also modulates intestinal fluid secretion.

AA Sequence MVLESTMVCVDNSEYMRNGDFLPTRLQAQQDAVNIVCHSKTRSNPENNVLITLAN
DCEVLTTLT PDTGRILSKLHTVQPKGKITFCTGIRVAHLALKHRQGKHNHMRIIAFVG
SPVEDNEKDLVKLAKR LKKEKVNVDIINFGEEEVNTEKLTAHVNTLNGKDG TGSHLV

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TVPPGPSLADALISSPILAGEGGA MLGLGASDFEFGVDPSADPELALALRVSMEEQR
 QRQEEEEARRAAAASAAEAGIATTGTEDSDDAL LKMTISQQEFGRTGLPDLSSMTEE
 EQIAYAMQMSLQGAIEFGQAESADIDASSAMDTSEPAKEEDD YDVMQDPEFLQSVL
 ENLPGVDPNNEAIRNAMGSLASQATKDGKKDKKEEDKKVDHHHHHH

Endotoxin Less than 0.1 ng/μg (1 IEU/μg).

Purity Greater than 95% as determined by reducing SDS-PAGE.

GENE INFORMATION

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

Official Symbol PSMD4

Synonyms PSMD4; proteasome (prosome, macropain) 26S subunit, non-ATPase, 4; 26S proteasome non-ATPase regulatory subunit 4; AF; AF 1; Rpn10; S5A; angiocidin; RPN10 homolog; antiseecretory factor 1; S5a/antiseecretory factor protein; multiubiquitin chain-binding protein; 26S proteasome regulatory subunit S5A; ASF; AF-1; MCB1; pUB-R5;

Gene ID 5710

mRNA Refseq NM_002810

Protein Refseq NP_002801

MIM 601648

UniProt ID P55036

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Chromosome Location	1q21.2
Pathway	APC/C-mediated degradation of cell cycle proteins, organism-specific biosystem; APC/C:Cdc20 mediated degradation of Securin, organism-specific biosystem; APC/C:Cdc20 mediated degradation of mitotic proteins, organism-specific biosystem; APC/C:Cdh1 mediated degradation of Cdc20 and other APC/C:Cdh1 targeted proteins in late mitosis/early G1, organism-specific biosystem; Activation of APC/C and APC/C:Cdc20 mediated degradation of mitotic proteins, organism-specific biosystem; Activation of NF-kappaB in B Cells, organism-specific biosystem; Adaptive Immune System, organism-specific biosystem;
Function	protein binding;

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