

Recombinant Human PSMD3

Cat. No. PSMD3-30427TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment of Human Proteasome 19S S3 with a N terminal proprietary tag; Predicted MWt 36.63 kDa.
Species	Human
Source	Wheat Germ
ProteinLength	100 amino acids
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.
Molecular Weight	36.630kDa inclusive of tags
Form	Liquid
Purity	Proprietary Purification

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Storage buffer	pH: 8.00Constituents:0.79% Tris HCl, 0.3% Glutathione
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	EFIVAKAIRDGVIEASINHEKGYVQSKEMIDIYSTREPQLAFHQRISFCLDIHNMSVKA MRFPKSYNKDLESAEERREREQQDLEFAKEMAEDDDDSFP
Sequence Similarities	Belongs to the proteasome subunit S3 family.Contains 1 PCI domain.

GENE INFORMATION

Gene Name	PSMD3 proteasome (prosome, macropain) 26S subunit, non-ATPase, 3 [Homo sapiens]
Official Symbol	PSMD3
Synonyms	PSMD3; proteasome (prosome, macropain) 26S subunit, non-ATPase, 3; tissue specific transplantation antigen 2 , TSTA2; 26S proteasome non-ATPase regulatory subunit 3; P58; Rpn3; S3;
Gene ID	5709
mRNA Refseq	NM_002809
Protein Refseq	NP_002800
Uniprot ID	O43242
Chromosome Location	17q21.2

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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;

Function

binding; enzyme regulator activity;

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