

Recombinant Human PSMD1, GST-tagged

Cat. No. PSMD1-2026H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human PSMD1(1 a.a. - 110 a.a.), fused with GST-tag at N-terminal, was expressed in wheat germ.
Species	Human
Source	Wheat Germ
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 the largest non-ATPase subunit of the 19S regulator lid, which is responsible for substrate recognition and binding. Alternatively spliced transcript variants have been found for this gene.
Molecular Mass	37.84 kDa
AA Sequence	MITSAAGIISLLDEDEPQLKEFALHKLNAVVNDFWAEISESVDKIEVLYEDEGFRSRQF AALVASKVFYHLGAFE ESLNYALGAGDLFNVNDNSEYVETIIAKCIDHYTK

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Applications	ELISA; WB-Re; AP; Array
Notes	Best use within three months from the date of receipt of this protein.
Storage	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
GENE INFORMATION	
Gene Name	PSMD1 proteasome (prosome, macropain) 26S subunit, non-ATPase, 1 [Homo sapiens]
Official Symbol	PSMD1
Synonyms	PSMD1; proteasome (prosome, macropain) 26S subunit, non-ATPase, 1; 26S proteasome non-ATPase regulatory subunit 1; P112; Rpn2; S1; 26S proteasome subunit p112; 26S proteasome regulatory subunit S1; 26S proteasome regulatory subunit RPN2; MGC133040; MGC133041
Gene ID	5707
mRNA Refseq	NM_002807
Protein Refseq	NP_002798
UniProt ID	Q99460
Chromosome Location	2q37.1
Pathway	AMER1 mutants destabilize the destruction complex; APC/C:Cdc20 mediated

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degradation of Securin; AXIN missense mutants destabilize the destruction complex

Function

enzyme regulator activity

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