

Full-Length

PSMD2 (Human) Recombinant Protein (P01)

Catalog # H00005708-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human PSMD2 full-length ORF (AAH02368, 1 a.a. - 908 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MEEGGRDKAPVQPQQSPAAAPGGTDEKPSGKERRDAGDKDKEQELSEEDKQLQDELEMLVE
RLGEKDTSLYRPALEELRRQIRSSSTSMSTVPKPLKFLRPHYGKLKEIENMAPGENKRFAADIISV
LAMTMSGERECLKYRLVGSQEELASWGHEYVRHLAGEVAKQWQELDDAEKVQREPLTLVKEIV
PYNMAHNAEHEACDLLMEIEQVDMLEKDIDENAYAKVCLYLTSCVNYVPEPENSALLRCALGVFR
KFSRFPEALRLALMLNDMELVEDIFTCKDVVVQKQMAFMLGRHGVFLELSEEDVEEYEDLTEIMS
NVQLNSNFLALARELDIMEPKVPDDIYKTHLENNRFGGSGSQVDSARMNLASSFVNGFVNAAFG
QDKLLTDDGNKWLYKNKDHGMLSAAASLGMILLWDVDGGLTQIDKYLSSSEDIKSGALLACGMV
SGVRNECDPALALLSDYVLHNSNTMRLGSIFGLGLAYAGSNREDVLTLLLPVMGDSKSSMEVAG
VTALACGMIAVGSCNGDVTSTILQTIMEKSETELKDTYARWLPPLGLGLNHLGKGEAIEAILAALEV
SEPFVSFANTLVDCAYAGSGNVLKVVQQLHICSEHFDSKEEEDKDKKEKKDKDKKEAPADM
GAHQGVAVLGIAMGEEIGAEMALRTFGHLLRYGEPTLRRVPLALALISVSNPRLNILDLSKFS
HDADPEVSYSIFAMGMVSGTNNARLAAMLRQLAQYHAKDPNNLFMVRLAQGLTHLGKGTLL
CPYHSDRQLMSQVAVAGLLTVLVSFLLDVRNIIIGKSHYVLYGLVAAMQPRMLVTFDEELRPLPVS
RVGQAVDVVGQAGKPKTTITGFQTHHTPVLLAHGERAELATEEFLPVTPILEGFVILRKNPNYDL

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

125.62

Preparation Method

[in vitro wheat germ expression system](#)

Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — PSMD2

Entrez GeneID	5708
GeneBank Accession#	BC002368
Protein Accession#	AAH02368
Gene Name	PSMD2
Gene Alias	MGC14274, P97, Rpn1, S2, TRAP2
Gene Description	proteasome (prosome, macropain) 26S subunit, non-ATPase, 2
Omim ID	606223
Gene Ontology	Hyperlink

Gene 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 non-ATPase subunits of the 19S regulator lid. In addition to participation in proteasome function, this subunit may also participate in the TNF signalling pathway since it interacts with the tumor necrosis factor type 1 receptor. A pseudogene has been identified on chromosome 1. [provided by RefSeq]

Other Designations

26S proteasome non-ATPase regulatory subunit 2|26S proteasome regulatory subunit S2|26S proteasome subunit p97|55.11 protein|TNFR-associated protein 2|proteasome 26S non-ATPase subunit 2|tumor necrosis factor receptor-associated protein 2

Pathway

- [Proteasome](#)

Disease

- [Genetic Predisposition to Disease](#)
- [Multiple Sclerosis](#)