

Recombinant Human PSMD2 Protein, His-tagged

PSMD2-421H Human

Lot. No. (See product label)

Specification

Product Overview

Recombinant Human PSMD2(Asp645~Val872) fused with His tag at N-terminal was expressed in E. coli.

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. 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. Alternative splicing results in multiple transcript variants of this gene.

Source

E. coli

Species

Human

Tag

His

Form

PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.

Molecular Mass

28.4kDa

Protein length

Asp645~Val872

Endotoxin

<1.0EU per 1µg (determined by the LAL method)

Purity

>95%

Applications

Positive Control; Immunogen; SDS-PAGE; WB.
If bio-activity of the protein is needed, please check active protein.

Stability

The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.

Storage

Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.

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

Tel: +1-631-559-9269 Fax: +1-631-938-8127

E-mail: info@creative-biomart.com

www.creativebiomart.net

Reconstitution Reconstitute in PBS or others.

Gene Information

Gene Name [PSMD2 proteasome \(prosome, macropain\) 26S subunit, non-ATPase, 2 \[Homo sapiens \]](#)

Official Symbol [PSMD2](#)

Synonyms PSMD2; proteasome (prosome, macropain) 26S subunit, non-ATPase, 2; 26S proteasome non-ATPase regulatory subunit 2; MGC14274; P97; Rpn1; S2; TRAP2; 55.11 protein; protein 55.11; TNFR-associated protein 2; 26S proteasome subunit p97; 26S proteasome regulatory subunit S2; 26S proteasome regulatory subunit RPN1; tumor necrosis factor receptor-associated protein 2; tumor necrosis factor type 1 receptor-associated protein 2;

Gene ID [5708](#)

mRNA Refseq [NM_002808](#)

Protein Refseq [NP_002799](#)

MIM [606223](#)

UniProt ID [Q13200](#)

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