

Recombinant Human PSMD4, Myc/DDK-tagged

Cat. No. PSMD4-550H Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant Human PSMD4 protein, fused to Myc/DDK tag at the C-terminus, was expressed in HEK293T cells.

Species Human

Source HEK293

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. Pseudogenes have been identified on chromosomes 10 and 21.

Molecular Mass 40.6 kDa

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

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Storage	Store at -80°C.
Concentration	>50 ug/mL as determined by microplate BCA method
Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol

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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SDS-PAGE



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