

Recombinant Full Length Human PSMD4 Protein, His tagged

Cat. No. PSMD4-02HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant protein of human proteasome (prosome, macropain) 26S subunit, non-ATPase, 4 (PSMD4), full length, with N-terminal HIS tag, expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	1-377 aa
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.
Tag	N-His
Molecular Mass	40.6 kDa

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Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Notes	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Storage Buffer	25 mM Tris-HCl, pH 8.0, 150 mM NaCl, 1% sarkosyl, 10% glycerol
Concentration	>0.05 µg/µL as determined by microplate BCA method

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

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Protein Refseq	NP_002801
MIM	601648
UniProt ID	P55036

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