

Recombinant Human Proteasome (prosome, macropain) 26S Subunit, Non-ATPase, 10

Cat. No. PSMD10-6927H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human PSMD10 was expressed in E. coli and purified by conventional chromatography techniques. MW: 24.4 kDa.
Species	Human
Source	E.coli
ProteinLength	1-226aa
Description	PSMD10 is an oncoprotein commonly overexpressed in most hepatocellular carcinomas. PSMD10 interacts with S6 ATPase of the 19S regulatory particle of the 26S proteasome. It is known to play a role in the regulation of the phosphorylation of the retinoblastoma protein by CDK4, and to enhance the ubiquitinylation of p53 by MDM2. PSMD10 consists of 7 ankyrin repeats and is structurally similar to I kappa Bs. Recombinant human PSMD10 was expressed in E. coli and purified by conventional chromatography techniques.
Form	Liquid. In Phosphate buffered saline (pH7.4), 10% glycerol
Molecular Mass	24.4 kDa (226aa), confirmed by MALDI-TOF
AA Sequence	MEGCVSNLMV CNLAYSGKLE ELKESILADK SLATRTDQDS RTALHWACSA GHTEIVEFLL QLGVPVNDKD DAGWSPLHIA ASAGRDEIVK ALLGKGAQVN AVNQNGCTPL HYAASKNRHE IAVMLLEGGA NPDAKDHYEA TAMHRAAAKG

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	NLKMIHILLY YKASTNIQDT EGNTPLHLAC DEERVEEAKL LVSQGASIYI ENKEEKTPLQ VAKGGLGLIL KRMVEG
Purity	>95% by SDS - PAGE
Applications	SDS-PAGE
Storage	Can be stored at 4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.
Concentration	1 mg/ml (determined by Bradford assay)
GENE INFORMATION	
Gene Name	PSMD10 proteasome (prosome, macropain) 26S subunit, non-ATPase, 10 [Homo sapiens]
Official Symbol	PSMD10
Synonyms	PSMD10; proteasome (prosome, macropain) 26S subunit, non-ATPase, 10; 26S proteasome non-ATPase regulatory subunit 10; gankyrin; p28; ankyrin repeat protein; 26S proteasome regulatory subunit p28; hepatocellular carcinoma-associated protein p28-II; p28(GANK); dJ889N15.2;
Gene ID	5716
mRNA Refseq	NM_002814
Protein Refseq	NP_002805
MIM	603480

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UniProt ID	O75832
Chromosome Location	Xq22.3
Pathway	APC/C-mediated degradation of cell cycle proteins, organism-specific biosystem; APC/C:Cdc20 mediated degradation of Securin, organism-specific biosystem; APC/C:Cdc20 mediated degradation of mitotic proteins, organism-specific biosystem; APC/C:Cdh1 mediated degradation of Cdc20 and other APC/C:Cdh1 targeted proteins in late mitosis/early G1, organism-specific biosystem; Activation of APC/C and APC/C:Cdc20 mediated degradation of mitotic proteins, organism-specific biosystem; Activation of NF-kappaB in B Cells, organism-specific biosystem; Adaptive Immune System, organism-specific biosystem;
Function	protein binding; transcription factor binding;

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