

Recombinant Human Proteasome (prosome, macropain) Subunit, Alpha Type, 7, His-tagged

Cat. No. PSMA7-1444H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	PSMA7 Human Recombinant fused to N-terminal His-Tag produced in E.Coli is a single, non-glycosylated polypeptide chain containing 268 amino acids (1-248) and having a molecular mass of 30 kDa. PSMA7 is fused to a 20 amino acid His Tag at N-Terminus and purified by standard chromatography techniques.
Species	Human
Source	Human
ProteinLength	1-248 a.a.
Description	PSMA7 interacts particularly with the hepatitis B virus X protein, a protein critical to viral replication. PSMA7 is involved in regulating hepatitis virus C internal ribosome entry site activity that is crucial for viral replication. PSMA7 is in charge for regulating the hypoxia-inducible factor-1alpha, a transcription factor important for cellular responses to oxygen tension. PSMA7 is characterized by its ability to cleave peptides with Arg, Phe, Tyr, Leu, and Glu adjacent to the leaving group at neutral or slightly basic pH.
Form	The PSMA7 solution contains 20 mM Tris-HCl pH-8, 0.1 M NaCl, and 20% glycerol.
Purity	Greater than 90.0% as determined SDS-PAGE.
Physical Appearance	Sterile Filtered colorless solution.

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Amino acid sequence

MGSSHHHHHH SSGLVPRGSH MSYDRAITVF SPDGHLFQVE YAQEAVKKGS
TAVGVRGRDI VVLGVEKKS SV AKLQDERTVR KICALDDNVC MAFAGLTADA
RIVINRARVE CQSHRLTVED PVTVEYITRY IASLKQRYTQ SNGRRPFGIS
ALIVGFDFDG TPRLYQTDPS GTYHAWKANA IGRGAKSVRE FLEKNYTDEA
IETDDLTIKL VIKALLEVVQ SGGKNIELAV MRRDQSLKIL NPEEIEKYVA
EIEKEKEENE KKKQKKAS

Storage

PSMA7 although stable 4°C for 4 weeks, should be stored desiccated below -18°C.
For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).
Please prevent freeze-thaw cycles.

GENE INFORMATION

Gene Name

PSMA7 proteasome (prosome, macropain) subunit, alpha type, 7 [Homo sapiens]

Official Symbol

PSMA7

Synonyms

PSMA7; proteasome (prosome, macropain) subunit, alpha type, 7; C6; HSPC; RC6-1;
XAPC7; MGC3755; proteasome subunit alpha type-7; OTTHUMP00000031449;
OTTHUMP00000031450; OTTHUMP00000031453; proteasome subunit RC6-1;
proteasome subunit XAPC7; proteasome subunit alpha 4

Gene ID

5688

mRNA Refseq

NM_002792

Protein Refseq

NP_002783

MIM

606607

UniProt ID

O14818

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Chromosome Location	20q13
Pathway	APC/C:Cdc20 mediated degradation of Securin; Adaptive Immunity Signaling; Antigen processing: Ubiquitination & Proteasome degradation; Assembly of the pre-replicative complex; Apoptosis; Cell Cycle Checkpoints; Cell Cycle; DNA Replication; G1/S Transition; HIV Infection; Metabolism of RNA; Proteasome
Function	identical protein binding; peptidase activity; protein binding; threonine-type endopeptidase activity
PDB rendering based on 1iru	