

Recombinant Human PSMA7 Protein, His-tagged

Cat. No. PSMA7-415H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human PSMA7(Tyr3~Met211) fused with His tag at N-terminal was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Tyr3~Met211
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. Proteasomes are distributed throughout eukaryotic cells at a high concentration and cleave peptides in an ATP/ubiquitin-dependent process in a non-lysosomal pathway. This gene encodes a member of the peptidase T1A family that functions as a 20S core alpha subunit. The encoded protein interacts with the hepatitis B virus X protein and plays a role in regulating hepatitis C virus internal ribosome entry site (IRES) activity, an activity essential for viral replication. The encoded protein also plays a role in the cellular stress response by regulating hypoxia-inducible factor-1alpha. A pseudogene of this gene is located on the long arm of chromosome 9.
Form	PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Molecular Mass	26.8kDa

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Endotoxin	<1.0EU per 1g (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.
Reconstitution	Reconstitute in PBS or others.

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; proteasome subunit alpha type-7; C6; HSPC; proteasome subunit RC6 1; proteasome subunit XAPC7; RC6 1; XAPC7; proteasome subunit RC6-1; proteasome subunit alpha 4; RC6-1; MGC3755;
Gene ID	5688
mRNA Refseq	NM_002792

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Protein Refseq	NP_002783
MIM	606607
UniProt ID	O14818

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