

Recombinant Human PSMA7 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. PSMA7-4836H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	PSMA7 MS Standard C13 and N15-labeled recombinant protein (NP_002783) with a C-terminal MYC/DDK tag, was expressed in HEK293 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. 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.
Molecular Mass	27.9 kDa
AA Sequence	MSYDRAITVFSPDGHLFQVEYAQEAVKKGSTAVGVRGRDIVVLGVEKKSVAKLQDE

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RTVRKICALDDNVCMAFAGLTADARIVINRARVECQSHRLTVEDPVTVEYITRYIASLK
 QRYTQSNGRPPFGISALIVGFDFDGTPLRYQTDPSGTYHAWKANAIGRGAKSVREF
 LEKNYTDEAIETDDLTIKLVIKALLEVVQSGGKNIELAVMRRDQSLKILNPEEIEKYVAEI
 EKEKEENEKKKQKKASTRTRPLEQKLISEEDLAANDILDYKDDDDKV

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

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name PSMA7 proteasome 20S subunit alpha 7 [Homo sapiens (human)]

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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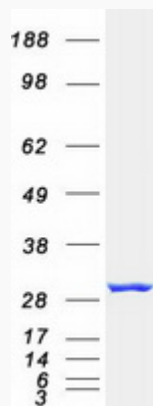
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Protein Refseq NP_002783

MIM 606607

UniProt ID O14818

SDS-PAGE



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