

Recombinant Full Length Human PSMA7 Protein, C-Flag-tagged

Cat. No. PSMA7-1046HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human PSMA7 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
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	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	27.7 kDa

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AA Sequence	MSYDRAITVFSPDGHLFQVEYAQEAVKKGSTAVGVRGRDIVVLGVEKKSVAKLQDE RTVRKICALDDNVC MAFAGLTADARIVINRARVEQCQSHRLTVEDPVTVEYITRYIASL KQRYTQSNRRPFGISALIVGFDFDG TPRLYQTDPSGTYHAWKANAIGRGAKSVRE FLEKNYTDEAIETDDLTIKLVIKALLEVVQSGGKNIELAV MRRDQSLKILNPEEIEKYVAEIEKEKEENEKKKQKKASTRTRPLEQKLISEEDLAANDI LDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
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.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome, Protease
Protein Pathways	Proteasome
Full Length	Full L.

GENE INFORMATION

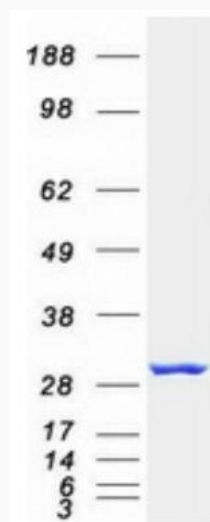
Gene Name	PSMA7 proteasome 20S subunit alpha 7 [Homo sapiens (human)]
Official Symbol	PSMA7

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Synonyms	C6; HSPC; RC6-1; XAPC7; HEL-S-276
Gene ID	5688
mRNA Refseq	NM_002792.4
Protein Refseq	NP_002783.1
MIM	606607
UniProt ID	O14818



Coomassie blue staining of purified PSMA7 protein.