

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

**Cat. No.** PSMA7-1369HFL    **Lot. No.** (See product label)

## SPECIFICATION

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

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|                         |                                                                                                                                                                                                                                                                                                               |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>AA Sequence</b>      | MSYDRAITVFSPDGHLFQVEYAQEAVKKGSTAVGVRGRDIVVLGVEKKSVAKLQDE<br>RTVRKICALDDNVC MAFAGLTADARIVINRARVEQCQSHRLTVEDPVTVEYITRYIASL<br>KQRYTQSNRRPFGISALIVGFDFDG TPRLYQTDPSGTYHAWKANAIGRGAKSVRE<br>FLEKNYTDEAIETDDLTIKLVIKALLEVVQSGGKNIELAV<br>MRRDQSLKILNPEEIEKYVAEIEKEKEENEKKKQKKASTRTRPLEQKLISEEDLAANDI<br>LDYKDDDDKV |
| <b>Purity</b>           | > 80% as determined by SDS-PAGE and Coomassie blue staining.                                                                                                                                                                                                                                                  |
| <b>Stability</b>        | Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.                                                                                                                                                                 |
| <b>Storage</b>          | Store at -80 centigrade.                                                                                                                                                                                                                                                                                      |
| <b>Concentration</b>    | >50 ug/mL as determined by microplate BCA method.                                                                                                                                                                                                                                                             |
| <b>Preparation</b>      | Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.                                                                                                                                                                                              |
| <b>Protein Families</b> | Druggable Genome, Protease                                                                                                                                                                                                                                                                                    |
| <b>Protein Pathways</b> | Proteasome                                                                                                                                                                                                                                                                                                    |
| <b>Full Length</b>      | Full L.                                                                                                                                                                                                                                                                                                       |

## GENE INFORMATION

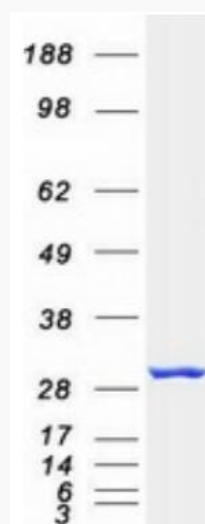
|                        |                                                               |
|------------------------|---------------------------------------------------------------|
| <b>Gene Name</b>       | PSMA7 proteasome 20S subunit alpha 7 [ Homo sapiens (human) ] |
| <b>Official Symbol</b> | PSMA7                                                         |

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



Coomassie blue staining of purified PSMA7 protein.