

Recombinant Human PSMA6 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. PSMA6-4556H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	PSMA6 MS Standard C13 and N15-labeled recombinant protein (NP_002782) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	The proteasome is a multicatalytic proteinase complex with a highly ordered ring-shaped 20S core structure. The core structure 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. An essential function of a modified proteasome, the immunoproteasome, is the processing of class I MHC peptides. This gene encodes a member of the peptidase T1A family, that is a 20S core alpha subunit. Multiple transcript variants encoding several different isoforms have been found for this gene. A pseudogene has been identified on the Y chromosome.
Molecular Mass	27.4 kDa
AA Sequence	MSRGSSAGFDRHITIFSPEGRLYQVEYAFKAINQGGLTSVAVRGKDCAVIVTQKKVP DKLLDSSTVTHLKFITENIGCVMTGMTADSRSQVQRARYEAANWKYKYGYEIPVDML CKRIADISQVYTQNAEMRPLGCCMILIGIDEEQGPQVYKCDPAGYYCGFKATAAGVK

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QTESTSFLEKKVKKKFDWTFEQTVETAITCLSTVLSIDFKPSEIEVGVTVENPKFRIL
TEAEIDAHLVALAERDTRTRPLEQKLISEEDLAANDILDYKDDDDKV

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	PSMA6 proteasome 20S subunit alpha 6 [Homo sapiens (human)]
Official Symbol	PSMA6
Synonyms	PSMA6; proteasome (prosome, macropain) subunit, alpha type, 6; proteasome subunit alpha type-6; IOTA; MGC2333; MGC22756; MGC23846; p27K; PROS27; PROS-27; macropain iota chain; prosomal P27K protein; proteasome iota chain; macropain subunit iota; 27 kDa prosomal protein; proteasome subunit iota; multicatalytic endopeptidase complex iota chain;
Gene ID	5687
mRNA Refseq	NM_002791
Protein Refseq	NP_002782

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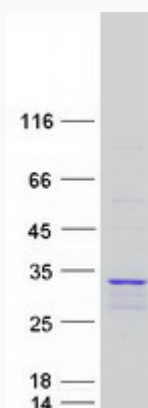
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MIM 602855

UniProt ID P60900

SDS-PAGE



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