Recombinant Human PSMA5

Cat. No. PSMA5-29976TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment corresponding to amino acids 132-241 of Human Proteasome 20S alpha 5 with a N terminal proprietary tag, predicted MW: 37.73 kDa inclusive of tag. P28066,
Species	Human
Source	Wheat Germ
ProteinLength	110 amino acids
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 alternatively spliced transcript variants encoding two distinct isoforms have been found for this gene.
Molecular Weight	37.730kDa inclusive of tags
Tissue specificity	Expressed in fetal brain (at protein level).

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Form	Liquid
Purity	Proprietary Purification
Storage buffer	pH: 8.00Constituents:0.3% Glutathione, 0.79% Tris HCl
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	AMSRPFGVALLFGGVDEKGPQLFHMDPSGTFVQCDARAIG SASEGAQSSLQEVYH KSMTLKEAIKSSLIILKQVMEEKLN ATNIELATVQPGQNFHMFTKEELEEVIKDI
Sequence Similarities	Belongs to the peptidase T1A family.

GENE INFORMATION

Gene Name	PSMA5 proteasome (prosome, macropain) subunit, alpha type, 5 [Homo sapiens]
Official Symbol	PSMA5
Synonyms	PSMA5; proteasome (prosome, macropain) subunit, alpha type, 5; proteasome subunit alpha type-5; ZETA;
Gene ID	5686
mRNA Refseq	NM_001199772
Protein Refseq	NP_001186701
MIM	176844

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Uniprot ID	P28066
Chromosome Location	1p13
Pathway	APC/C-mediated degradation of cell cycle proteins, organism-specific biosystem; APC/C:Cdc20 mediated degradation of Securin, organism-specific biosystem; APC/C:Cdc20 mediated degradation of mitotic proteins, organism-specific biosystem; APC/C:Cdh1 mediated degradation of Cdc20 and other APC/C:Cdh1 targeted proteins in late mitosis/early G1, organism-specific biosystem; Activation of APC/C and APC/C:Cdc20 mediated degradation of mitotic proteins, organism-specific biosystem;
Function	peptidase activity; protein binding; threonine-type endopeptidase activity;

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