Recombinant Human PSMA2, His-tagged

Cat. No. PSMA2-31102TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment, corresponding to amino acids 3-234 of Human Proteasome 20S alpha 2 with N terminal His tag; 232 amino acids, 28kDa.
Species	Human
Source	E.coli
ProteinLength	3-234 a.a.
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.
Conjugation	HIS
Form	Lyophilised:Reconstitute with 57 µl aqua dest.
Storage buffer	Preservative: NoneConstituents: 0.5% Trehalose, 6M Urea, 100mM Sodium phosphate, 10mM Sodium chloride, pH 4.5

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Storage	Shipped at 4°C. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	ERGYSFSLTTFSPSGKLVQIEYALAAVAGGAPSVGIKAAN GVVLATEKKQKSILYDE RSVHKVEPITKHIGLVYSGMG PDYRVLVHRARKLAQQYYLVYQEPIPTAQLVQRVAS VMQE YTQSGGVRPFGVSLLICGWNEGRPYLFQSDPSGAYFAW KATAMGKNYVN GKTFLEKRYNEDLELEDAIHTAILTLK ESFEGQMTEDNIEVGICNEAGFRRLTPTEVK DYLAAIA
Sequence Similarities	Belongs to the peptidase T1A family.

GENE INFORMATION

Gene Name	PSMA2 proteasome (prosome, macropain) subunit, alpha type, 2 [Homo sapiens]
Official Symbol	PSMA2
Synonyms	PSMA2; proteasome (prosome, macropain) subunit, alpha type, 2; proteasome subunit alpha type-2; HC3; MU; PMSA2;
Gene ID	5683
mRNA Refseq	NM_002787
Protein Refseq	NP_002778
MIM	176842
Uniprot ID	P25787
Chromosome Location	7p13

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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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