

Recombinant Human PSMA5 Protein, His-tagged

Cat. No. PSMA5-414H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human PSMA5(Met1~Ile241) fused with His tag at N-terminal was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Met1~Ile241
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.
Form	PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Molecular Mass	30.1kDa
Endotoxin	<1.0EU per 1g (determined by the LAL method)

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

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Purity	> 95%
Applications	Positive Control; Immunogen; SDS-PAGE; WB. If bio-activity of the protein is needed, please check active protein.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Reconstitution	Reconstitute in PBS or others.

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; macropain zeta chain; proteasome zeta chain; macropain subunit zeta; proteasome component 5; proteasome subunit zeta; proteasome alpha 5 subunit; multicatalytic endopeptidase complex zeta chain; PSC5; FLJ42315; MGC117302; MGC125802; MGC125803; MGC125804;
Gene ID	5686
mRNA Refseq	NM_001199772

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Protein Refseq	NP_001186701
MIM	176844
UniProt ID	P28066

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