

Recombinant Full Length Human PSMA2 Protein, His-tagged

Cat. No. PSMA2-30429TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human Proteasome 20S alpha 2 fused with an N terminal His tag, 254 amino acids with a predicted Mwt of 28 kDa inclusive of tag
Species	Human
Source	E.coli
ProteinLength	1-234 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
Molecular Weight	28.000kDa inclusive of tags
Form	Liquid
Purity	>95% by SDS-PAGE

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

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

 45-1 Ramsey Road, Shirley, NY 11967, USA

Storage buffer	pH: 8.00 Constituents: 30% Glycerol, 0.02% DTT, 0.58% Sodium chloride, 0.002% PMSF, 0.32% Tris HCl
Storage	Store at +4°C short term (1-2 weeks). Aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Sequences of amino acids	MGSSHHHHH SSGLVPRGSH MAERGYSFSL TTFSPSGKLV QIEYALAAVA GGAPSVGIKA ANGVVLATEK KQKSILYDER SVHKVEPITK HIGLVYSGMG PDYRVLVHRA RKLAQQYYLV YQEPIPTAQL VQRVASVMQE YTQSGGVRPF GVSLICGWN EGRPYLFQSD PSGAYFAWKA TAMGKNYVNG KTFLEKRYNE DLELEDAIHT AILTLKESFE GQMTEDNIEV GICNEAGFRR LTPTEVKDYL AAIA
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

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Uniprot ID	P25787
Chromosome Location	7p13
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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