

Product datasheet for PH324611

PSMB8 (NM_148919) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	PSMB8 MS Standard C13 and N15-labeled recombinant protein (NP_683720)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC224611
Predicted MW:	30.2 kDa
Protein Sequence:	>RC224611 representing NM_148919 Red=Cloning site Green=Tags(s) MALLDVCGAPRGQRPESALPVAGSGRRSDPGHYFSMRSPELALPRGMQPTEFFQSLGGDGERNVQIEMA HGTTTTLAFKFQHGVIAAVDSRASAGSYISALRVNKVIEINPYLLGTMSGCAADCQYWERLLAKECRLYYL RNGERISVSAASKLLSNMMCQYRGMGLSMGSMICGWDKKGPGLYYVDEHGTRLSGNMFSTGSGNTYAYGV MDSGYRPNLSPEEAYDLGRRAIAYATHRDSYSGGVVNMVYHMKEDGWVKVESTDVSDDLHQYREANQ TRTRPLEQKLI SEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	NP_683720
RefSeq Size:	1135
RefSeq ORF:	828
Synonyms:	ALDD; D6S216; D6S216E; JMP; LMP7; NKJO; PRAAS1; PSMB5i; RING10
Locus ID:	5696
UniProt ID:	P28062 , X5CMJ9



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Cytogenetics: 6p21.32

Summary: 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 proteasome B-type family, also known as the T1B family, that is a 20S core beta subunit. This gene is located in the class II region of the MHC (major histocompatibility complex). Expression of this gene is induced by gamma interferon and this gene product replaces catalytic subunit 3 (proteasome beta 5 subunit) in the immunoproteasome. Proteolytic processing is required to generate a mature subunit. Two alternative transcripts encoding two isoforms have been identified; both isoforms are processed to yield the same mature subunit. [provided by RefSeq, Jul 2008]

Protein Families: Druggable Genome, Protease

Protein Pathways: Proteasome

Product images:



Coomassie blue staining of purified PSMB8 protein (Cat# [TP324611]). The protein was produced from HEK293T cells transfected with PSMB8 cDNA clone (Cat# [RC224611]) using MegaTran 2.0 (Cat# [TT210002]).