

Product datasheet for PH302431

PSME2 (NM_002818) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	PSME2 MS Standard C13 and N15-labeled recombinant protein (NP_002809)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC202431
Predicted MW:	27.4 kDa
Protein Sequence:	>RC202431 protein sequence Red=Cloning site Green=Tags(s) MAKPCGVRLSGEARKQVEVFRQNLFQEAEEFLYRFLPQKIIYLNQLLQEDSLNVADLTSLRAPLDIPIPD PPPKDDEMETDKQEKKEVPKCGFLPGNEKVL SLLALVKPEVWTLKEKCILVITWIQHLIPKIEDGNDFGV AIQEKVLERVNAVTKVEAFQTTISKYF SERGDAVAKASKETHVMDYRALVHERDEAAYGELRAMVLDLR AFYAELYHISSNLEKIVNPKGEEKPSMY 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_002809
RefSeq Size:	829
RefSeq ORF:	717
Synonyms:	PA28B; PA28beta; REGbeta
Locus ID:	5721
UniProt ID:	Q9UL46 , Q86SZ7



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Cytogenetics: 14q12

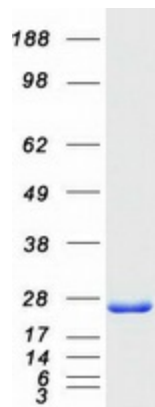
Summary:

The 26S proteasome is a multicatalytic proteinase complex with a highly ordered structure composed of 2 complexes, a 20S core and a 19S regulator. The 20S core 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. The 19S regulator is composed of a base, which contains 6 ATPase subunits and 2 non-ATPase subunits, and a lid, which contains up to 10 non-ATPase 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. The immunoproteasome contains an alternate regulator, referred to as the 11S regulator or PA28, that replaces the 19S regulator. Three subunits (alpha, beta and gamma) of the 11S regulator have been identified. This gene encodes the beta subunit of the 11S regulator, one of the two 11S subunits that is induced by gamma-interferon. Three beta and three alpha subunits combine to form a heterohexameric ring. Six pseudogenes have been identified on chromosomes 4, 5, 8, 10 and 13. [provided by RefSeq, Jul 2008]

Protein Pathways:

Antigen processing and presentation, Proteasome

Product images:



Coomassie blue staining of purified PSME2 protein (Cat# [TP302431]). The protein was produced from HEK293T cells transfected with PSME2 cDNA clone (Cat# [RC202431]) using MegaTran 2.0 (Cat# [TT210002]).