

Product datasheet for TP301260M

OriGene Technologies, Inc.

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PSME1 (NM_006263) Human Recombinant Protein

Product data:

Product Type: Recombinant Proteins

Description: Recombinant protein of human proteasome (prosome, macropain) activator subunit 1 (PA28

alpha) (PSME1), transcript variant 1, 100 µg

Species: Human
Expression Host: HEK293T

Expression cDNA Clone >RC201260 protein sequence or AA Sequence: Red=Cloning site Green=Tags(s)

MAMLRVQPEAQAKVDVFREDLCTKTENLLGSYFPKKISELDAFLKEPALNEANLSNLKAPLDIPVPDPVK EKEKEERKKQQEKEDKDEKKKGEDEDKGPPCGPVNCNEKIVVLLQRLKPEIKDVIEQLNLVTTWLQLQIP RIEDGNNFGVAVQEKVFELMTSLHTKLEGFHTQISKYFSERGDAVTKAAKQPHVGDYRQLVHELDEAEYR

DIRLMVMEIRNAYAVLYDIILKNFEKLKKPRGETKGMIY

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag: C-Myc/DDK

Predicted MW: 28.5 kDa

Concentration: >0.05 µg/µL as determined by microplate BCA method

Purity: > 80% as determined by SDS-PAGE and Coomassie blue staining

Buffer: 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol

Preparation: Recombinant protein was captured through anti-DDK affinity column followed by

conventional chromatography steps.

Note: For testing in cell culture applications, please filter before use. Note that you may experience

some loss of protein during the filtration process.

Storage: Store at -80°C.

Stability: Stable for 12 months from the date of receipt of the product under proper storage and

handling conditions. Avoid repeated freeze-thaw cycles.

RefSeq: NP 006254

Locus ID: 5720



PSME1 (NM_006263) Human Recombinant Protein - TP301260M

UniProt ID: Q06323, <u>A0A0K0K1L8</u>

RefSeq Size: 1023 Cytogenetics: 14q12 RefSeq ORF: 747

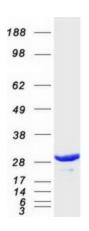
Synonyms: HEL-S-129m; IFI5111; PA28A; PA28alpha; REGalpha

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 alpha subunit of the 11S regulator, one of the two 11S subunits that is induced by gamma-interferon. Three alpha and three beta subunits combine to form a heterohexameric ring. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2013]

Protein Pathways: Antigen processing and presentation, Proteasome

Product images:



Coomassie blue staining of purified PSME1 protein (Cat# [TP301260]). The protein was produced from HEK293T cells transfected with PSME1 cDNA clone (Cat# [RC201260]) using MegaTran 2.0 (Cat# [TT210002]).