

Recombinant Human PSME1 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. PSME1-752H **Lot. No.** (See product label)

SPECIFICATION

Product Overview

PSME1 MS Standard C13 and N15-labeled recombinant protein (NP_006254) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.

Species

Human

Source

HEK293

Description

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.

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Molecular Mass	28.7 kDa
AA Sequence	MAMLRVQPEAQAKVDVFREDLCTKTENLLGSYFPKKISELDAFLKEPALNEANLSNL KAPLDIPVPDPVKEKEKEERKKQKEKEDKDEKKKGEDEDKGPPCGPVNCNEKIVVL LQRLKPEIKDVIEQLNLVTTWLQLQIPRIEDGNNFGVAVQEKFELMTSLHTKLEGFH TQISKYFSERGDVTKAAKQPHVGDYRQLVHELDEAEYRDIRLMVMEIRNAYAVLYD IILKNFEKLKKPRGETKGMITYTRTRPLEQKLISEEDLAANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 µg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name	PSME1 proteasome activator subunit 1 [Homo sapiens (human)]
Official Symbol	PSME1
Synonyms	PSME1; proteasome (prosome, macropain) activator subunit 1 (PA28 alpha); proteasome activator complex subunit 1; IFI5111; PA28alpha; REG-alpha; IGUP I-5111; 29-kD MCP activator subunit; interferon-gamma IEF SSP 5111; proteasome activator subunit-1; 11S regulator complex alpha subunit; 11S regulator complex subunit alpha; proteasome activator 28 subunit alpha; interferon-gamma-inducible protein 5111; interferon gamma up-regulated I-5111 protein; activator of multicatalytic

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protease subunit 1; PA28A; REGalpha; MGC8628;

Gene ID 5720

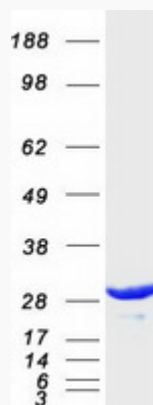
mRNA Refseq NM_006263

Protein Refseq NP_006254

MIM 600654

UniProt ID Q06323

SDS-PAGE



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