Recombinant Human PSME2 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. PSME2-6507H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	PSME2 MS Standard C13 and N15-labeled recombinant protein (NP_002809) 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 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.

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Molecular Mass	27.4 kDa
AA Sequence	MAKPCGVRLSGEARKQVEVFRQNLFQEAEEFLYRFLPQKIIYLNQLLQEDSLNVADL TSLRAPLDIPIPDPPPKDDEMETDKQEKKEVPKCGFLPGNEKVLSLLALVKPEVWTLK EKCILVITWIQHLIPKIEDGNDFGVAIQEKVLERVNAVKTKVEAFQTTISKYFSERGDAV AKASKETHVMDYRALVHERDEAAYGELRAMVLDLRAFYAELYHIISSNLEKIVNPKGE EKPSMYTRTRPLEQKLISEEDLAANDILDYKDDDDKV
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	PSME2 proteasome activator subunit 2 [Homo sapiens (human)]
Official Symbol	PSME2
Synonyms	PSME2; proteasome (prosome, macropain) activator subunit 2 (PA28 beta); proteasome activator complex subunit 2; PA28beta; REG-beta; MCP activator, 31-kD subunit; proteasome activator 28-beta; 11S regulator complex beta subunit; 11S regulator complex subunit beta; cell migration-inducing protein 22; proteasome activator 28 subunit beta; proteasome activator hPA28 subunit beta; activator of multicatalytic protease subunit 2; PA28B; REGbeta;

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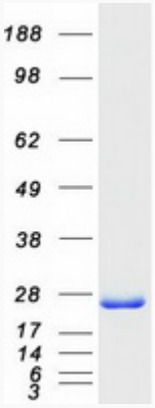
Gene ID	5721
mRNA Refseq	NM_002818
Protein Refseq	NP_002809
MIM	602161
UniProt ID	Q9UL46
SDS-PAGE	

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