Recombinant Full Length Human PSME1 Protein, C-Flag-tagged

Cat. No. PSME1-2025HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human PSME1 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
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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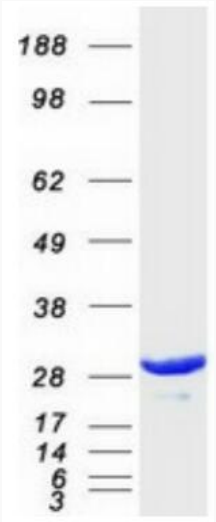
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	28.5 kDa
AA Sequence	MAMLRVQPEAQAKVDVFREDLCTKTENLLGSYFPKKISELDAFLKEPALNEANLSNL KAPLDIPVPDPVK EKEKEERKKQQEKEDKDEKKKGEDEDKGPPCGPVNCNEKIVVL LQRLKPEIKDVIEQLNLVTTWLQLQIP RIEDGNNFGVAVQEKVFELMTSLHTKLEGFH TQISKYFSERGDAVTKAAKQPHVGDYRQLVHELDEAEYR DIRLMVMEIRNAYAVLY DIILKNFEKLKKPRGETKGMIY TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Pathways	Antigen processing and presentation, Proteasome
Full Length	Full L.

GENE INFORMATION

Gene Name	PSME1 proteasome activator subunit 1 [Homo sapiens (human)]
Official Symbol	PSME1

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Synonyms	PA28A; IFI5111; REGalpha; PA28alpha; HEL-S-129m
Gene ID	5720
mRNA Refseq	NM_006263.4
Protein Refseq	NP_006254.1
MIM	600654
UniProt ID	Q06323



Coomassie blue staining of purified PSME1 protein.

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