

Recombinant Human Proteasome (Prosome, Macropain) Activator Subunit 2 (PA28 Beta), His-tagged

Cat. No. PSME2-1288H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant human PSME2 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography.
Species	Human
Source	Human
Description	PSME2, also known as proteasome (prosome, macropain) activator subunit 2, is an IFN-gamma inducible proteasome activator required for presentation of certain major histocompatibility (MHC) class I antigens. Downregulation of PSME2 results in abnormal proteasome activation and has been implicated in the development of intimal hyperplasia (IH) in animal models.
Form	Liquid. 20mM Tris-HCl buffer (pH8.0) containing 20% glycerol 0.1M NaCl, 1mM DTT, 0.1mM PMSF
Molecular Weight	29.5 kDa (259aa), confirmed by MALDI-TOF
Purity	> 95% by SDS - PAGE
Concentration	1.0 mg/ml (determined by Bradford assay)
Sequences of amino acids	MGSSHHHHHH SSGLVPRGSH MAKPCGVRLS GEARQVEVF RQNLFQEAE FLYRFLPQKI IYLNQLLQED SLNVADLTSL RAPLDIIPD PPPKDDMET

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DKQEKKEVPK CGFLPGNEKV LSLALVKPE VWTLKEKCIL VITWQHLIP
 KIEDGNDFGV AIQEKVLERV NAVKTKVEAF QTTISKYFSE RGDVAKASK
 ETHVMDYRAL VHERDEAAYG ELRAMVLDLR AFYAELYHII SSNLEKIVNP
 KGEEKPSMY

Storage

Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

Pathways

APC/C:Cdc20 mediated degradation of mitotic proteins; Antigen processing:
 Ubiquitination & Proteasome degradation; Apoptosis; Cell Cycle; DNA Replication
 Pre-Initiation

GENE INFORMATION

Gene Name

PSME2 proteasome (prosome, macropain) activator subunit 2 (PA28 beta) [Homo sapiens]

Official Symbol

PSME2

Synonyms

PSME2; proteasome (prosome, macropain) activator subunit 2 (PA28 beta); PA28B; REGbeta; PA28beta; proteasome activator complex subunit 2; REG-beta; OTTHUMP00000027977; 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; Proteasome activator complex subunit 2; 11S regulator complex subunit beta; Proteasome activator 28 subunit beta; Activator of multicatalytic protease subunit 2; PA28b

Gene ID

5721

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mRNA Refseq	NM_002818
Protein Refseq	NP_002809
MIM	602161
UniProt ID	Q9UL46
Chromosome Location	14q11.2

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