

Recombinant human PA28 alpha/PSME1 protein

Catalog Number: ATGP0749

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-249aa

UniProt No.

Q06323

NCBI Accession No.

NP_006254

Alternative Names

Proteasome activator subunit 1, 11S regulator complex subunit alpha, REG-alpha, Activator of multicatalytic protease subunit 1, Interferon gamma up-regulated I-5111 protein, IGUP I-5111, Proteasome activator 28 subunit alpha, PA28a, PA28alpha, IFI5111

PRODUCT SPECIFICATION

Molecular Weight

30.8 kDa (269aa) confirmed by MALDI-TOF

Concentration

0.5mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol

Purity

> 90% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

PSME1 is an interferon gamma (IFNG) inducible proteasome activator required for presentation of certain major histocompatibility (MHC) class I antigens. The PSME1 complex is an alternative proteasome activator that does not employ the use of ubiquitin. The PSME1 complex is composed of two homologous subunits, alpha and beta, which have similar catalytic properties and associate to form a hexameric ring. Recombinant human PSME1

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protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

Amino acid Sequence

MGSSHHHHHH SSGLVPRGSH MAMLRVQPEA QAKVDVFRED LCTKTENLLG SYFPKKISEL DAFLKEPALN EANLSNLKAP
LDIPVPDPVK EKEKEERKKQ QEKEDKDEKK KGEDEDKGPP CGPVNCNEKI VLLQRLKPE IKDVIEQLNL VTTWLQLQIP
RIEDGNNFGV AVQEKVFELM TSLHTKLEGF HTQISKYFSE RGDVTKAAK QPHVGDYRQL VHELDEAEYR DIRLMVMEIR
NAYAVLYDII LKNFEKLLKP RGETKGMII

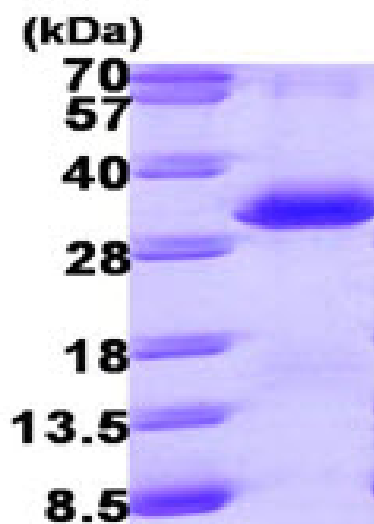
General References

Ahn K., et al. (1996) J Biol Chem. 271(30):18237-42

Murata S., et al. (2001) EMBO J.. 20(21):5898-907.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

15% SDS-PAGE (3ug)