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Recombinant human PSMF1 protein

Catalog Number: ATGP1352

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-271aa

UniProt No.

092530

NCBI Accession No.

NP 006805

Alternative Names

Proteasome inhibitor subunit 1 isoform 1, PI31

PRODUCT SPECIFICATION

Molecular Weight

31.9 kDa (291aa) confirmed by MALDI-TOF

Concentration

0.5mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 20% glycerol, 1mM DTT,0.1mM PMSF

Purity

> 85% 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

PSMF1 is a protein that inhibits the activation of the proteasome by the 11S and 19S regulators. 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. Recombinant human PSMF1 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography.



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Amino acid Sequence

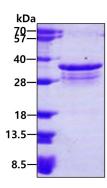
<MGSSHHHHHH SSGLVPRGSH> MAGLEVLFAS AAPAITCRQD ALVCFLHWEV VTHGYCGLGV GDQPGPNDKK SELLPAGWNN NKDLYVLRYE YKDGSRKLLV KAITVESSMI LNVLEYGSQQ VADLTLNLDD YIDAEHLGDF HRTYKNSEEL RSRIVSGIIT PIHEQWEKAN VSSPHREFPP ATAREVDPLR IPPHHPHTSR QPPWCDPLGP FVVGGEDLDP FGPRRGGMIV DPLRSGFPRA LIDPSSGLPN RLPPGAVPPG ARFDPFGPIG TSPPGPNPDH LPPPGYDDMY L

General References

Tanahashi N. et al. (1999) Mol Biol Rep 26: 3-9. Seeger M. et al. (1997) J. Biol. Chem. 272: 8145-8148.

DATA

SDS-PAGE



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

