

Recombinant human PSMG2 protein

Catalog Number: ATGP1211

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-264aa

UniProt No.

Q969U7

NCBI Accession No.

NP_064617

Alternative Names

Proteasome assembly chaperone 2, CLAST3, HCCA3, HsT1707, PAC2, TNFSF5IP1

PRODUCT SPECIFICATION

Molecular Weight

31.8 kDa (287aa) confirmed by MALDI-TOF

Concentration

0.25mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 40% glycerol, 0.1M NaCl

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

PSMG2, also known as proteasome assembly chaperone 2, promotes assembly of the 20S proteasome as part of a heterodimer with PSMG1. The PSMG1-PSMG2 heterodimer binds to the PSMA5 and PSMA7 proteasome subunits, promotes assembly of the proteasome alpha subunits into the heteroheptameric alpha ring and prevents alpha ring dimerization. Recombinant human PSMG2 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

<MGSSHHHHH SSGLVPRGSH MGS>MFVPCGE SAPDLAGFTL LMPAVSVGNV GQLAMDLIIS TLNMSKIGYF
YTDCLVPMVG NNPYATTEGN STELSINAEV YSLPSRKLVA LQLRSIFIKY KSKPFCEKLL SWVKSSGCAR VIVLSSSHSY
QRNDLQLRST PFRYLLTPSM QKSVQNKIKS LNWEEMEKSR CIPEIDDSEF CIRIPGGGIT KTLYDESCSK EIQMAVLLKF
VSEGDNIPDA LGLVEYLNEW LQILKPLSDD PTVSASRWKI PSSWRLLFGS GLPPALF

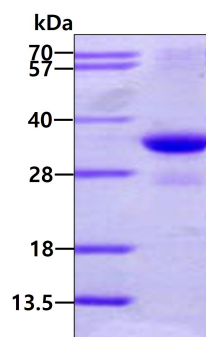
General References

Hirano Y., et al. (2005) Nature. 437:1381-1385

Le Tallec B., et al. (2007) Mol. Cell. 27:660-674

DATA

SDS-PAGE



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