

Recombinant human PSMA5 protein

Catalog Number: ATGP1336

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-241aa

UniProt No.

P28066

NCBI Accession No.

NP_002781

Alternative Names

Proteasome subunit alpha type-5, PSC5, ZETA

PRODUCT SPECIFICATION

Molecular Weight

30.5 kDa (277aa) confirmed by MALDI-TOF

Concentration

0.5mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 2mM DTT, 10% glycerol, 100mM 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

PSMA5 (Proteasome subunit alpha type-5) belongs to the peptidase T1A family. The proteasome is a multicatalytic proteinase complex which is characterized by its ability to cleave peptides with Arg, Phe, Tyr, Leu, and Glu adjacent to the leaving group at neutral or slightly basic pH. Proteasomes are distributed throughout eukaryotic cells at a high concentration and cleave peptides in an ATP/ubiquitin-dependent process in a non-lysosomal pathway. PSMA5 has been shown to interact with PLK1. This peptidase has a very broad specificity for cleavage of peptide bonds. Recombinant human PSMA5 protein, fused to His-tag at N-terminus, was expressed

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in *E. coli* and purified by using conventional chromatography techniques.

Amino acid Sequence

MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSMFLT RSEYDRGVNT FSPEGRLFQV EYAIEAIKLG STAIGIQTSE
GVCLAVEKRI TSPLMEPSSI EKIVEIDAH I GCAMSGLIAD AKTLIDKARV ETQNHWFYTN ETMTVESVTQ AVSNLALQFG
EEDADPGAMS RPFGVALLFG GVDEKGPQLF HMDPSGTFVQ CDARAIGSAS EGAQSSLQEV YHKSMTLKEA IKSSLIILKQ
VMEEKLNATN IELATVQPGQ NFHMFTKEEL EEVIKDI

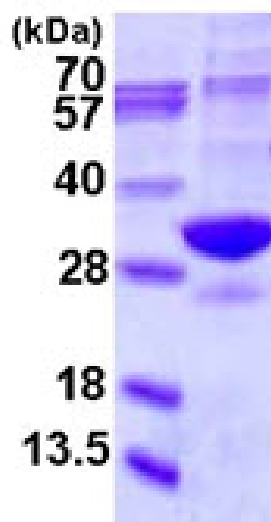
General References

Feng, Y., et al. (2001) *Cell Growth Differ.* (United States) 12 (1): 29-37.

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

DATA

SDS-PAGE



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

15% SDS-PAGE (3ug)