

Recombinant human PSMA1 protein

Catalog Number: ATGP1241

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-263aa

UniProt No.

P25786

NCBI Accession No.

NP_002777

Alternative Names

Proteasome subunit alpha type-1 isoform 2, HC2, Nu, PROS30

PRODUCT SPECIFICATION

Molecular Weight

32 kDa (286aa) confirmed by MALDI-TOF

Concentration

1mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 2mM DTT, 0.15M NaCl.

Purity

> 95% 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

PSMA1 is a prosomal protein involved in a nonlysosomal ATP/ubiquitin-dependent proteolytic pathway. The protein 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. This protein highly expressed in prostate epithelium. Recombinant human PSMA1 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

Recombinant human PSMA1 protein

Catalog Number: ATGP1241

Amino acid Sequence

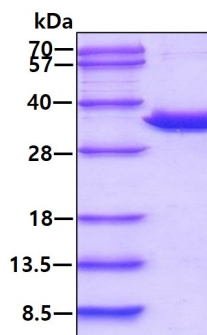
<MGSSHHHHHH SSGLVPRGSH MGS>MFRNQYD NDVTWSPQG RIHQIEYAME AVKQGSATVG LKSKTHAVLV
ALKRAQSELA AHQKKILHVD NHIGISIAGL TADARLLCNF MRQECLDSRF VFDRPLPVSRLVSLIGSKTQ IPTQRYGRRP
YGVGLLIAGY DDMGPHIFQT CPSANYFDCR AMSIGARSQS ARTYLERHMS EFMECNLNEL VKHGLRALRE TLPAEQDLTT
KNVSIGIVGK DLEFTIYDDD DVSPFLEGLE ERPQRKAQPA QPADEPAEKA DEPMEH

General References

DeMartino GN., et al. (1991) Biochim Biophys Acta. 1079(1):29-38.
Silva Pereira I., et al. (1992) Gene. 120(2):235-42.

DATA

SDS-PAGE



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