

PSMA1, 1-263 aa, Human, His tag, E.coli

Cat.NO.: TP03559

3th Edition

Synonyms:Proteasome subunit alpha type-1 isoform 2, HC2, NU, PROS30.

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.

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

Molecular Weight:32 kDa (286aa), confirmed by MALDI-TOF

Sequences:

MGSSHHHHHSSGLVPRGSHMGSMFRNQYDNDVTWSPQGRIHQIEYAMEAVKQGSATVGLKSKTHAVLVALKR
AQSELAHQKILHVDNHIGISIAGLTADARLLCNFMRQECLDSRFVFDRLPVSRLVSLIGSKTQIPTQRYGRRPYG
VGLLIAGYDDMGPHIFQTCPSANYFDCRAMSIGARSQSARTYLERHMSEFMECNLNLVKGHLRALRETLPAEQDL
TTKNVSIQIVGKDLEFTIYDDDDVSPFLEGLEERPQRKAQPAQPADEPAEKADPEMEH

Purity:> 95% by HPLC

Concentration:1 mg/ml (determined by Bradford)

Endotoxin Level:<1.0 EU per 1 ug of protein (determined by LAL method)

Storage:Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.