
Product Data Sheet

Product Name: PSMA1 Human
 Cat. No.: GP22173
 Batch No.: 1

Product Data

Purity	>98%	Source	E.coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Proteasome (prosome macropain) subunit alpha type 1; PROS30; HC2; NU; Macropain subunit C2; Multicatalytic endopeptidase complex subunit C2; Proteasome component C2; Proteasome nu chain; 30 kDa prosomal protein; protein P30-33K; PROS-30; PSC2; EC 3.4.25.1.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSMFRNQYD NDVTWVSPQG RIHQIEYAME AVKQGSATVG LSKKTHAVLV ALKRAQSELA AHQKKILHVD NHIGISIAGL TADARLLCNF MRQECLDSRF VFDRPLPVSRLVSLIGSKTQ IPTQRYGRRP YGVGLLIAGY DDMGPHIFQT CPSANYFDCR AMSIGARSQS ARTYLERHMS EFMECNLNEL VKHGLRALRE TLPAEQDLTT KNVSIGIVGK DLEFTIYDDD DVSPFLEGLE ERPQRKAQPA QPADEPAEKA DEPMEH		
Formulation	The PSMA1 solution (1mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.15M NaCl, 2mM DTT and 10% glycerol.		

Introduction

PSMA1 is a prosomal protein who takes part in a nonlysosomal ATP/ubiquitin-dependent proteolytic pathway. PSMA1 is a multicatalytic proteinase complex that is characterized by its capacity to cleave peptides with Arg, Phe, Tyr, Leu, and Glu next to the leaving group at neutral or slightly basic pH. PSMA1 is vastly expressed in prostate epithelium.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

PSMA1 Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide

Caution: Product has not been fully validated for medical applications. For research use only.

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chain containing 286 amino acids (1-263) and having a molecular mass of 32.0 kDa. PSMA1 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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