
Product Data Sheet

Product Name: PSMA4 Human
 Cat. No.: GP22176
 Batch No.: 1

Product Data

Purity	>98%	Source	E.coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Proteasome subunit alpha type-4; Macropain subunit C9; Multicatalytic endopeptidase complex subunit C9; Proteasome component C9; Proteasome subunit L; PSMA4; HC9; PSC9; HsT17706.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSMSRRYD SRTTIFSPEG RLYQVEYAME AIGHAGTCLG ILANDGVLLA AERRNIHKLL DEVFFSEKIY KLNEDMACSV AGITSDANVL TNELRLIAQR YLLQYQEPPIV CEQLVTALCD IKQAYTQFGG KRPFVSVLLY IGWDKHYGFQ LYQSDPSGNY GGWKATCIGN NSAAAVSMLK QDYKEGEMTL KSALALAIKV LNKTMDVSKL SAEKVEIATL TRENGKTVIR VLKQKEVEQL IKKHEEEEEAK AEREKKEKEQ KEKDK.		
Formulation	The PSMA4 solution (1mg/ml) contains 20mM Tris-HCl buffer (pH8.0), 20% glycerol, 1mM DTT and 0.1mM PMSF.		

Introduction

Proteasome subunit alpha type 4 (PSMA4) belongs to the peptidase T1A family, which is a 20S core alpha subunit. The proteasome is a multicatalytic proteinase complex with an extremely ordered ring-shaped 20S core structure. The core structure is comprised of 4 rings of 28 non-identical subunits; 2 rings are composed of 7 alpha subunits and 2 rings are composed of 7 beta subunits. PSMA4 is dispersed throughout eukaryotic cells at a high concentration and cleaves peptides in an ATP/ubiquitin-dependent process in a non-lysosomal pathway.

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.

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

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Background

PSMA4 Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 285 amino acids (1-261) and having a molecular mass of 32kDa. PSMA4 is fused to a 24 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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