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## Product Data Sheet

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Product Name: PSMA2 Human  
 Cat. No.: GP22174  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Proteasome subunit alpha type-2; Macropain subunit C3; Multicatalytic endopeptidase complex subunit C3; Proteasome component C3; PSMA2; HC3; PSC3; MU; PSC2.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MAERGYSFSL TTFSPSGKLV QIEYALAAVA GGAPSVGIKA ANGVVLATEK KQKSILYDER SVHKVEPITK HIGLVYSGMG PDYRVLVHRA RKLAQQYYLV YQEPIPTAQL VQRVASVMQE YTQSGGVRPF GVSLICGWN EGRPYLFQSD PSGAYFAWKA TAMGKNYVNG KTFLEKRYNE DLELEDAIHT AILTLKESFE GQMTEDNIEV GICNEAGFRR LTPTEVKDYL AAIA.		
Formulation	PSMA2 protein solution (1mg/ml) containing 20mM Tris-HCl buffer (pH8.0), 30% glycerol, 0.1M NaCl, 1mM DTT and 0.1mM PMSF.		

### Introduction

Proteasome subunit alpha type-2 (PSMA2) 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. PSMA2 is a 20S core alpha subunit of proteasome belonging to the peptidase T1A family. PSMA2 functions as a docking domain for the regulatory particles and exterior gates blocking unregulated access to the inner cavity.

### 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

PSMA2 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 254 amino acids (1-234 a.a.) and having a molecular mass of 28kDa. PSMA2 is fused to a 20 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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