
Product Data Sheet

Product Name: PSMF1 Human
 Cat. No.: GP22194
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Proteasome inhibitor PI31 subunit; hPI31; PSMF1; PI31.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MAGLEVL FAS AAPAITCRQD ALVCFLHWEV VTHGYCGLGV GDQPGPNDKK SELLPAGWNN NKDLYVLRYE YKDGSRKLLV KAITVESSMI LNVLEYGSQQ VADLTLNLDD YIDAEHLGDF HRTYKNSEEL RSRIVSGIIT PIHEQWEKAN VSSPHREFPP ATAREVDPLR IPPHPHTSR QPPWCDPLGP FVVGGEDLDP FGPRRGGMIV DPLRSGFPRA LIDPSSGLPN RLPPGAVPPG ARFDPFGPIG TSPGPNPDH LPPPGYDDMY L.		
Formulation	The PSMF1 solution (0.5mg/ml) contains 20mM Tris-HCl buffer (pH8.0), 20% glycerol, 1mM DTT and 0.1mM PMSF.		

Introduction

PSMF1 is a protein which hinders the activation of the proteasome by the 11S and 19S regulators. The 26S proteasome is a multicatalytic proteinase complex with an extremely ordered structure composed of 2 complexes, a 20S core and a 19S regulator. The 20S core 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.

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

PSMF1 Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 291 amino acids (1-271) and having a molecular mass of

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Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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31.9kDa.PSMF1 is fused to a 20 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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