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Datasheet for ABIN3131907 PSMB5 Protein (AA 60-264) (His tag)

Image



Overview

000101000	
Quantity:	1 mg
Target:	PSMB5
Protein Characteristics:	AA 60-264
Origin:	Mouse
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This PSMB5 protein is labelled with His tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS), Crystallization (Crys)
Product Details	
Sequence:	TTTLAFKFLH GVIVAADSRA TAGAYIASQT VKKVIEINPY LLGTMAGGAA DCSFWERLLA
	RQCRIYELRN KERISVAAAS KLLANMVYQY KGMGLSMGTM ICGWDKRGPG LYYVDSEGNR
	ISGTAFSVGS GSVYAYGVMD RGYSYDLKVE EAYDLARRAI YQATYRDAYS GGAVNLYHVR
	EDGWIRVSSD NVADLHDKYS SVSVP
	Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a
	special request, please contact us.
Characteristics:	 Made in Germany - from design to production - by highly experienced protein experts. Mouse Psmb5 Protein (raised in E. Coli) purified by multi-step, protein-specific process to ensure crystallization grade.
	State-of-the-art algorithm used for plasmid design (Gene synthesis).
	This protein is a made to order protein and will be made for the first time for your order. Our

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Target:	PSMB5
Target Details	
Grade:	Crystallography grade
Endotoxin Level:	Endotoxin has not been removed. Please contact us if you require endotoxin removal.
Sterility:	0.22 µm filtered
Purity:	>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
	through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.
	fractions are analyzed by SDS-PAGE. 2. Protein containing fractions of the best purification are subjected to second purification step
	different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. Eluate
runneation.	1. In a first purification step, the protein is purified from the cleared cell lysate using three
Purification:	Two step purification of proteins expressed in bacterial culture:
	the Expasy's protparam tool to determine the absorption coefficient of each protein.
	The concentration of the protein is calculated using its specific absorption coefficient. We use
	specific reference buffer.
	The protein's absorbance will be measured in several dilutions and is measured against its
	protein experts will do everything to make sure that you receive the protein you ordered. The concentration of our recombinant proteins is measured using the absorbance at 280nm.
	folded protein. With no financial risk on your end you can rest assured that our experienced
	When you order this made-to-order protein you will only pay upon receival of the correctly
	experiments or purification optimization).
	custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression
	(other companies might charge you for any performed steps in the expression process for
	In the unlikely event that the protein cannot be expressed or purified we do not charge anything
	cannot be expressed or purified.
	made proteins from other companies is that there is no financial obligation in case the protein
	The big advantage of ordering our made-to-order proteins in comparison to ordering custom

Target:	PSMB5
Alternative Name:	Psmb5 (PSMB5 Products)
Background:	The proteasome 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 . The proteasome has an ATP-dependent proteolytic activity. This unit is

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Target Details

	responsible of the chymotrypsin-like activity of the proteasome and is one of the principal
	target of the proteasome inhibitor bortezomib (By similarity). Plays a role in the protection
	against oxidative damage through the Nrf2-ARE pathway. {ECO:0000250,
	EC0:000269 PubMed:19183883}.
Molecular Weight:	23.5 kDa Including tag.
UniProt:	055234
Pathways:	Mitotic G1-G1/S Phases, DNA Replication, Synthesis of DNA
Application Details	
Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies
	as well. As the protein has not been tested for functional studies yet we cannot offer a gurantee
	though.
Comment:	Protein has not been tested for activity yet. In cases in which it is highly likely that the
	recombinant protein with the default tag will be insoluble our protein lab may suggest a higher
	molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all possible
	options with you in detail to assure that you receive your protein of interest.
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Buffer:	100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)



Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process

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