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Datasheet for ABIN3137336 PIWIL1 Protein (AA 1-862) (His tag)

Image



Overview

Quantity:	1 mg
Target:	PIWIL1
Protein Characteristics:	AA 1-862
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This PIWIL1 protein is labelled with His tag.
Application:	ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS)

Product Details

Sequence:	MTGRARARAR GRARGQETVQ HVGAAASQQP GYIPPRPQQS PTEGDLVGRG RQRGMVVGAT
	SKSQELQISA GFQELSLAER GGRRRDFHDL GVNTRQNLDH VKESKTGSSG IIVKLSTNHF
	RLTSRPQWAL YQYHIDYNPL MEARRLRSAL LFQHEDLIGR CHAFDGTILF LPKRLQHKVT
	EVFSQTRNGE HVRITITLTN ELPPTSPTCL QFYNIIFRRL LKIMNLQQIG RNYYNPSDPI
	DIPNHRLVIW PGFTTSILQY ENNIMLCTDV SHKVLRSETV LDFMFNLYQQ TEEHKFQEQV
	SKELIGLIVL TKYNNKTYRV DDIDWDQNPK STFKKADGSE VSFLEYYRKQ YNQEITDLKQ
	PVLVSQPKRR RGPGGTLPGP AMLIPELCYL TGLTDKMRND FNVMKDLAVH TRLTPEQRQR
	EVGRLIDYIH KDDNVQRELR DWGLSFDSNL LSFSGRILQS EKIHQGGKTF DYNPQFADWS
	KETRGAPLIS VKPLDNWLLI YTRRNYEAAN SLIQNLFKVT PAMGIQMKKA IMIEVDDRTE
	AYLRALQQKV TSDTQIVVCL LSSNRKDKYD AIKKYLCTDC PTPSQCVVAR TLGKQQTVMA
	IATKIALQMN CKMGGELWRV DMPLKLAMIV GIDCYHDTTA GRRSIAGFVA SINEGMTRWF
	SRCVFQDRGQ ELVDGLKVCL QAALRAWSGC NEYMPSRVIV YRDGVGDGQL KTLVNYEVPQ

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	FLDCLKSVGR GYNPRLTVIV VKKRVNARFF AQSGGRLQNP LPGTVIDVEV TRPEWYDFFI
	VSQAVRSGSV SPTHYNVIYD SSGLKPDHIQ RLTYKLCHVY YNWPGVIRVP APCQYAHKLA
	FLVGQSIHRE PNLSLSNRLY YL
	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 Piwil1 Protein (raised in Insect Cells) 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
	experts in the lab will ensure that you receive a correctly folded protein.
	The big advantage of ordering our made-to-order proteins in comparison to ordering custom
	made proteins from other companies is that there is no financial obligation in case the protein
	cannot be expressed or purified.
	In the unlikely event that the protein cannot be expressed or purified we do not charge anything
	(other companies might charge you for any performed steps in the expression process for
	custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression
	experiments or purification optimization).
	When you order this made-to-order protein you will only pay upon receival of the correctly
	folded protein. With no financial risk on your end you can rest assured that our experienced
	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.
	The protein's absorbance will be measured in several dilutions and is measured against its specific reference buffer.
	The concentration of the protein is calculated using its specific absorption coefficient. We use
	the Expasy's protparam tool to determine the absorption coefficient of each protein.
Purification:	Two step purification of proteins expressed in baculovirus infected SF9 insect cells:
	 In a first purification step, the protein is purified from the cleared cell lysate using three different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. Eluate fractions are analyzed by SDS-PAGE.
	2. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.
Purity:	>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Sterility:	0.22 µm filtered

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Product Details	
Endotoxin Level:	Protein is endotoxin free.
Grade:	Crystallography grade

Target Details

Target:	PIWIL1
Alternative Name:	Piwil1 (PIWIL1 Products)
Background:	Plays a central role during spermatogenesis by repressing transposable elements and
	preventing their mobilization, which is essential for the germline integrity. Acts via the piRNA
	metabolic process, which mediates the repression of transposable elements during meiosis by
	forming complexes composed of piRNAs and Piwi proteins and governs the methylation and
	subsequent repression of transposons. Directly binds methylated piRNAs, a class of 24 to 30
	nucleotide RNAs that are generated by a Dicer-independent mechanism and are primarily
	derived from transposons and other repeated sequence elements. Besides their function in
	transposable elements repression, piRNAs are probably involved in other processes during
	meiosis such as translation regulation. Probable component of some RISC complex, which
	mediates RNA cleavage and translational silencing. Also plays a role in the formation of
	chromatoid bodies and is required for some miRNAs stability.
	{EC0:0000269 PubMed:11578866}.
Molecular Weight:	99.5 kDa Including tag.
UniProt:	Q9JMB7
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)

Images



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