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## Datasheet for ABIN3137403 DMRT1 Protein (AA 1-374) (His tag)

Image



## Overview

Quantity:	1 mg	
Target:	DMRT1	
Protein Characteristics:	AA 1-374	
Origin:	Mouse	
Source:	Insect Cells	
Protein Type:	Recombinant	
Purification tag / Conjugate:	This DMRT1 protein is labelled with His tag.	
Application:	ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS)	

## Product Details

Sequence:	MPNDDTFGKP STPTEVPHAP GAPPQGKAGG YSKAAGAMAG AAGGSGAGGS GGASGSGPSG
	LGSGSKKSPR LPKCARCRNH GYASPLKGHK RFCMWRDCQC KKCSLIAERQ RVMAAQVALR
	RQQAQEEELG ISHPIPLPSA AELLVKRENN ASNPCLMAEN SSSAQPPPAS TPTPAASEGR
	MVIQDIPAVT SRGHMENTSD LVSDPAYYSS FYQPSLFPYY NNLYNYPQYS MALSAESSSG
	EVGNSLGGSP VKNSLRSLPA PYVPAQTGNQ WQMKTSESRH PVSSQYRMHS YYGPPSYLGQ
	SMSQIFTFEE GPSYSEAKAS VFSPPSSQDS GLVSLSSSSP MSNESSKGVL ECESASSEPS
	SYAVNQVLEE DEDE
	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 Dmrt1 Protein (raised in Insect Cells) purified by multi-step, protein-specific process
	to ensure crystallization grade.

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	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:	
	1. 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	
Endotoxin Level:	Protein is endotoxin free.	
Grade:	Crystallography grade	
Target Details		
Target:	DMRT1	
Alternative Name:		

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Target Details		
Background:	Transcription factor that plays a key role in male sex determination and differentiation by	
	controlling testis development and male germ cell proliferation. Plays a central role in	
	spermatogonia by inhibiting meiosis in undifferentiated spermatogonia and promoting mitosis,	
	leading to spermatogonial development and allowing abundant and continuous production of	
	sperm. Acts both as a transcription repressor and activator: prevents meiosis by restricting	
	retinoic acid (RA)-dependent transcription and repressing STRA8 expression and promotes	
	spermatogonial development by activating spermatogonial differentiation genes, such as	
	SOHLH1. Also plays a key role in postnatal sex maintenance by maintaining testis	
	determination and preventing feminization: represses transcription of female promoting genes	
	such as FOXL2 and activates male-specific genes. May act as a tumor suppressor. May also	
	play a minor role in oogenesis. {ECO:0000269 PubMed:11040213,	
	ECO:0000269 PubMed:17540358, ECO:0000269 PubMed:20007774,	
	ECO:0000269 PubMed:20616082, ECO:0000269 PubMed:20951351,	
	ECO:0000269 PubMed:21621532, ECO:0000269 PubMed:21775990}.	
Molecular Weight:	40.4 kDa Including tag.	
UniProt:	Q9QZ59	
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	

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 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

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