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# PRMT6 Protein (AA 1-378) (His tag)



**Image** 



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#### Overview

Quantity:	1 mg
Target:	PRMT6
Protein Characteristics:	AA 1-378
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This PRMT6 protein is labelled with His tag.
Application:	ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS)

#### **Product Details**

### Sequence:

MSLSKKRKLE SGDSGGAGAG GEGAEEENGG EQEAAPPRPR RTKSERDQLY YECYSDVSVH
EEMIADQVRT EAYRLGILKN WAALRGKTVL DVGAGTGILS IFCAQAGARR VYAVEASAIW
QQAREVVRLN GLEDRVHVLP GPVETVELPE RVDAIVSEWM GYGLLHESML SSVLHARTKW
LKEGGLLPA SAELFVAPIS DQMLEWRLGF WSQVKQHYGV DMSCMESFAT RCLMGHSEIV
VQDLSGEDVL ARPQRFAQLE LARAGLEQEL EAGVGGRFRC SCYGSAPLHG FAVWFQVTFP
GGDSEKPLVL STSPFHPATH WKQALLYLNE PVPVEQDTDI SGEITLLPSP DNPRRLRILL
RYKVGDHEEK TKDFAMED

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 Prmt6 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.
- 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: PRMT6

Alternative Name: Prmt6 (PRMT6 Products)

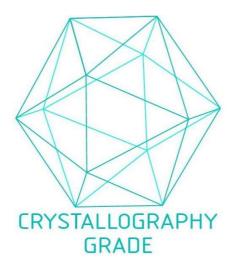
## **Target Details**

rarget betans	
Background:	Arginine methyltransferase that can catalyze the formation of both omega-N
	monomethylarginine (MMA) and asymmetrical dimethylarginine (aDMA), with a strong
	preference for the formation of aDMA. Preferentially methylates arginyl residues present in a
	glycine and arginine-rich domain and displays preference for monomethylated substrates.
	Specifically mediates the asymmetric dimethylation of histone H3 'Arg-2' to form H3R2me2a.
	H3R2me2a represents a specific tag for epigenetic transcriptional repression and is mutually
	exclusive with methylation on histone H3 'Lys-4' (H3K4me2 and H3K4me3). Acts as a
	transcriptional repressor of various genes such as HOXA2, THBS1 and TP53. Repression of
	TP53 blocks cellular senescence. Also methylates histone H2A and H4 'Arg-3' (H2AR3me and
	H4R3me, respectively). Acts as a regulator of DNA base excision during DNA repair by
	mediating the methylation of DNA polymerase beta (POLB), leading to the stimulation of its
	polymerase activity by enhancing DNA binding and processivity. Methylates HMGA1. Regulates
	alternative splicing events. Acts as a transcriptional coactivator of a number of steroid hormone
	receptors including ESR1, ESR2, PGR and NR3C1. Promotes fasting-induced transcriptional
	activation of the gluconeogenic program through methylation of the CRTC2 transcription
	coactivator. {ECO:0000269 PubMed:22904064, ECO:0000269 PubMed:24570487}.
Molecular Weight:	42.8 kDa Including tag.
UniProt:	Q6NZB1
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.

## Handling

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