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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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PRODUCT INFORMATION



PRMT6 (human recombinant; baculovirus expressed)

Item No. 13866

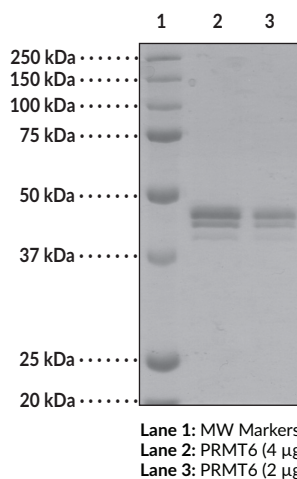
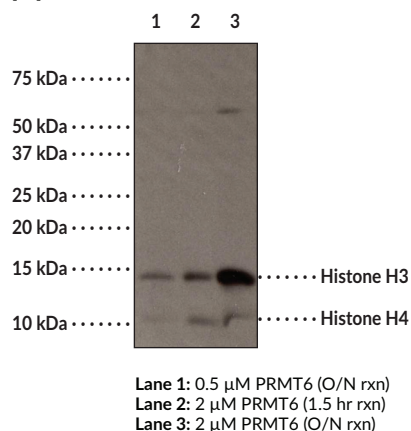
Overview and Properties

Synonyms:	Histone Arginine N-methyltransferase PRMT6, HRMT1L6, Protein Arginine Methyltransferase 6
Source:	Recombinant N-terminal hexahistidine-tagged protein expressed in Sf21 cells
Amino Acids:	2-375 (full length)
Uniprot No.:	Q96LA8
Molecular Weight:	43.7 kDa
Storage:	-80°C (as supplied); avoid freeze/thaw cycles by aliquoting protein
Stability:	≥1 year
Purity:	<i>batch specific</i>
Supplied in:	50 mM Tris-HCl, pH 8.0, with 150 mM sodium chloride and 20% glycerol
Protein Concentration:	<i>batch specific</i> mg/ml

Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Images

Autoradiograph of core histones (Item No. 11010) separated on SDS-PAGE following a reaction with [³H]-SAM and PRMT6



Representative gel image shown; actual purity may vary between each batch.

WARNING
THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA
This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

WARRANTY AND LIMITATION OF REMEDY
Buyer agrees to purchase the material subject to Cayman's Terms and Conditions. Complete Terms and Conditions including Warranty and Limitation of Liability information can be found on our website.

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PRODUCT INFORMATION



Description

Protein arginine methyltransferases (PRMTs) are a family of enzymes with highly conserved catalytic domains that catalyze the transfer of a methyl group from S-adenosyl-L-methionine to a specific arginine residue in a target protein. PRMT6 is a nuclear type-1 PRMT, catalyzing the formation of ω -N^G-monomethylarginine and asymmetric ω -N^G,N^G-dimethylarginine on both histone and non-histone targets.¹⁻³ Histone H3 methylation of arginine 2 (H3R2) is a repressive transcriptional mark primarily catalyzed by PRMT6.⁴ H3R2 dimethylation antagonizes the binding of effector proteins sensitive to H3K4 methylation, such as the Mixed Lineage Leukemia complex methyltransferase.⁵ Non-histone targets of PRMT6 includes the nuclear high-mobility group protein HMGA1a, a protein important in several processes relating to the maintenance of DNA integrity.³

References

1. Frankel, A., Yadav, N., Lee, J., *et al.* The novel human protein arginine N-methyltransferase PRMT6 is a nuclear enzyme displaying unique substrate specificity. *J. Biol. Chem.* **277**(5), 3537-3543 (2002).
2. Wolf, S.S. The protein arginine methyltransferase family: An update about function, new perspectives and the physiological role in humans. *Cell. Mol. Life Sci.* **66**, 2109-2121 (2009).
3. Miranda, T.B., Webb, K.J., Edberg, D.D., *et al.* Protein arginine methyltransferase 6 specifically methylates the nonhistone chromatin protein HMGA1a. *Biochem. Biophys. Res. Commun.* **336**(3), 831-835 (2005).
4. Iberg, A.N., Espejo, A., Cheng, D., *et al.* Arginine methylation of the histone H3 tail impedes effector binding. *J. Biol. Chem.* **283**(6), 3006-3010 (2008).
5. Guccione, E., Bassi, C., Casadio, F., *et al.* Methylation of histone H3R2 by PRMT6 and H3K4 by an MLL complex are mutually exclusive. *Nature* **449**, 933-937 (2007).

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