SZABO SCANDIC

Part of Europa Biosite

Produktinformation

- Forschungsprodukte & Biochemikalien
- Zellkultur & Verbrauchsmaterial
- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!

Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

linkedin.com/company/szaboscandic

PRODUCT INFORMATION

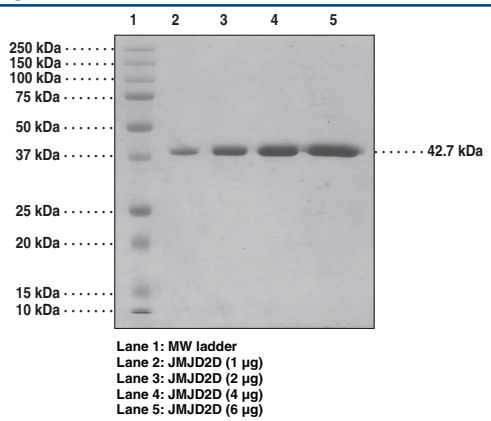
JMJD2D (human, recombinant)

Item No. 10335

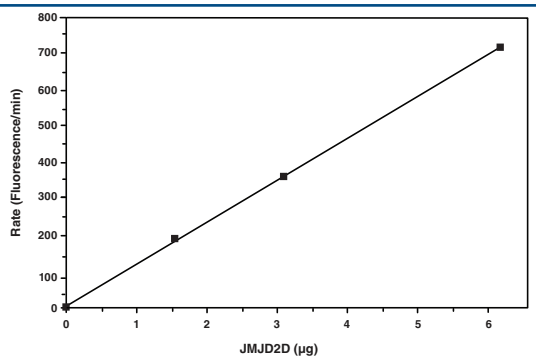
Synonyms:	JHDM3D, Jumonji Domain Containing 2D, KDM4D, Lysine (K)-Specific Demethylase 4D
Source:	Active recombinant human N-terminal His-tagged protein, expressed in *E. coli*
Amino Acids:	1-354 (C-terminal truncation)
Uniprot No.:	Q6B0I6
Molecular Weight:	42.7 kDa
Storage:	-80°C (as supplied)
Stability:	≥6 months
Purity:	***batch specific*** (≥75% estimated by SDS-PAGE)
Supplied in:	50 mM HEPES, pH 7.4, with 150 mM sodium chloride and 20% glycerol
Protein Concentration:	***batch specific*** mg/ml
Activity:	***batch specific*** U/ml
Specific Activity:	***batch specific*** U/mg
Unit Definition:	nmol/min/mg; one unit of activity is defined as the amount of enzyme required to produce 1 nmol of formaldehyde at 37°C in 50 mM HEPES, pH 7.4, containing 0.05% Tween 20, 0.1 mM sodium L-ascorbate, 10 µM ferrous ammonium sulfate, 0.5 mM NAD^+, and 50 µM disodium oxoglutarate

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

Images



Lane 1: MW ladder
Lane 2: JMJD2D (1 µg)
Lane 3: JMJD2D (2 µg)
Lane 4: JMJD2D (4 µg)
Lane 5: JMJD2D (6 µg)



CAYMAN CHEMICAL
1180 EAST ELLSWORTH RD
ANN ARBOR, MI 48108 · USA
PHONE: [800] 364-9897
[734] 971-3335
FAX: [734] 971-3640
CUSTSERV@CAYMANCHEM.COM
WWW.CAYMANCHEM.COM

PRODUCT INFORMATION

Description

Methylation of lysine residues in core histones plays a critical role in regulating gene expression.[1] Jumonji domain containing 2D (JMJD2D) catalyzes the demethylation of di- and tri-methylated forms of histone H3 at lysine residue 9 (me 2/3), leading to transcriptional repression and activation, respectively.[2] Like other JmjC protein hydroxylase family members, JMJD2D is an α-ketoglutarate-dependent Fe (II) oxygenase.[3] Because of their implication in cancer cell growth, jumonji C domain-containing histone demethylase inhibitors may have the capacity to be anticancer agents.[1]

References

1. Hamada, S., Kim, T.-D., Suzuki, T., *et al.* Synthesis and activity of N-oxalylglycine and its derivatives as Jumonji C-domain-containing histone lysine demethylase inhibitors. *Bioorg. Med. Chem. Lett.* **19**, 2852-2855 (2009).
2. Kouzarides, T. Chromatin modifications and their function. *Cell* **128**, 693-705 (2007).
3. Couture, J.-F., Collazo, E., Ortiz-Tello, P.A., *et al.* Specificity and mechanism of JMJD2A, a trimethyllysine-specific histone demethylase. *Nat. Struct. Mol. Biol.* **14(8)**, 689-695 (2007).

CAYMAN CHEMICAL
1180 EAST ELLSWORTH RD
ANN ARBOR, MI 48108 · USA
PHONE: [800] 364-9897
[734] 971-3335
FAX: [734] 971-3640
CUSTSERV@CAYMANCHEM.COM
WWW.CAYMANCHEM.COM