



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Lieferung & Zahlungsart

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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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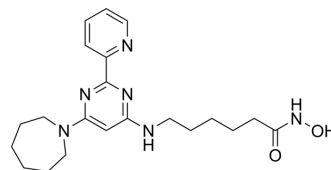
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## JMJD3/HDAC-IN-1

Cat. No.:	HY-156094
CAS No.:	2883046-06-6
Molecular Formula:	C <sub>21</sub> H <sub>30</sub> N <sub>6</sub> O <sub>2</sub>
Molecular Weight:	398.5
Target:	HDAC; Histone Demethylase; Apoptosis
Pathway:	Cell Cycle/DNA Damage; Epigenetics; Apoptosis
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

Description	JMJD3/HDAC-IN-1 (compound A5b) is a dual inhibitor targeting Jumonji domain-containing protein demethylase 3 (JMJD3) and histone deacetylase (HDAC1, IC <sub>50</sub> =16 nM). JMJD3/HDAC-IN-1 promotes hypermethylation of histone H3K27 and hyperacetylation of H3K9, and also cleaves caspase-7 and PARP to induce apoptosis. JMJD3/HDAC-IN-1 effectively inhibits cancer cell cloning, migration, and invasion <sup>[1]</sup> .
IC <sub>50</sub> & Target	IC <sub>50</sub> : 16 nM (HDAC1), 534 nM (HDAC6) <sup>[1]</sup>

### REFERENCES

[1]. Li A, et al. Design, synthesis and biological evaluation of pyrimidine base hydroxamic acid derivatives as dual JMJD3 and HDAC inhibitors. *Bioorg Med Chem Lett*. 2023 Oct 1;94:129466..

**Caution: Product has not been fully validated for medical applications. For research use only.**

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