



# 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

Quellenstraße 110, A-1100 Wien

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

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

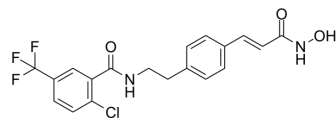
[mail@szabo-scandic.com](mailto:mail@szabo-scandic.com)

[www.szabo-scandic.com](http://www.szabo-scandic.com)

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## DNMT/HDAC-IN-1

<b>Cat. No.:</b>	HY-158075
<b>CAS No.:</b>	2095619-17-1
<b>Molecular Formula:</b>	C <sub>19</sub> H <sub>16</sub> ClF <sub>3</sub> N <sub>2</sub> O <sub>3</sub>
<b>Molecular Weight:</b>	412.79
<b>Target:</b>	HDAC; DNA Methyltransferase
<b>Pathway:</b>	Cell Cycle/DNA Damage; Epigenetics
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	DNMT/HDAC-IN-1 (Compound 15a) is a dual DNMT and HDAC inhibitor with IC <sub>50</sub> values for HDAC1 and HDAC6 are 56.84 nM and 17.39 nM respectively. DNMT/HDAC-IN-1 can induce apoptosis and be used in tumor research.																	
<b>IC<sub>50</sub> &amp; Target</b>	HDAC1 56.84 nM (IC <sub>50</sub> )	HDAC6 17.39 nM (IC <sub>50</sub> )																
<b>In Vitro</b>	<p>DNMT/HDAC-IN-1 significantly suppress K562 and U937 proliferation with IC<sub>50</sub> values of 2.85 and 1.06 mM, respectively<sup>[1]</sup>. MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <p>Western Blot Analysis<sup>[1]</sup></p> <table border="1"> <tr> <td>Cell Line:</td> <td>U937 cells</td> </tr> <tr> <td>Concentration:</td> <td>0, 1, 2.5, 5 μM</td> </tr> <tr> <td>Incubation Time:</td> <td>12 h</td> </tr> <tr> <td>Result:</td> <td>induced histone H3K9 and histone H4K8 acetylation and increased P16 expression.</td> </tr> </table> <p>Apoptosis Analysis<sup>[1]</sup></p> <table border="1"> <tr> <td>Cell Line:</td> <td>U937 cells</td> </tr> <tr> <td>Concentration:</td> <td>2.5, 5, 10 μM</td> </tr> <tr> <td>Incubation Time:</td> <td>36 h</td> </tr> <tr> <td>Result:</td> <td>induced apoptosis in U937 cells.</td> </tr> </table>		Cell Line:	U937 cells	Concentration:	0, 1, 2.5, 5 μM	Incubation Time:	12 h	Result:	induced histone H3K9 and histone H4K8 acetylation and increased P16 expression.	Cell Line:	U937 cells	Concentration:	2.5, 5, 10 μM	Incubation Time:	36 h	Result:	induced apoptosis in U937 cells.
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### REFERENCES

[1]. Yuan Z, et al. Design, synthesis and anticancer potential of NSC-319745 hydroxamic acid derivatives as DNMT and HDAC inhibitors. *Eur J Med Chem.* 2017 Jul 7;134:281-292.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA