



# 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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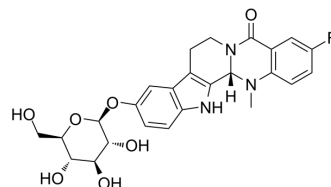
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## 3-Fluoro-evodiamine glucose

<b>Cat. No.:</b>	HY-161501
<b>Molecular Formula:</b>	C <sub>25</sub> H <sub>26</sub> FN <sub>3</sub> O <sub>7</sub>
<b>Molecular Weight:</b>	499.49
<b>Target:</b>	GLUT; Topoisomerase; Apoptosis
<b>Pathway:</b>	Membrane Transporter/Ion Channel; Cell Cycle/DNA Damage; Apoptosis
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	3-Fluoro-evodiamine glucose (Compound 8) is an evodiamine-glucose conjugate. 3-Fluoro-evodiamine glucose activates the expression of glucose transporter 1 (GLUT1), and inhibits topoisomerase I/II. 3-Fluoro-evodiamine glucose induces apoptosis and arrests the cell cycle at G2/M phase. 3-Fluoro-evodiamine glucose exhibits antitumor efficacy in vivo and in vitro, without significant toxicity <sup>[1]</sup> .																		
<b>IC<sub>50</sub> &amp; Target</b>	Topoisomerase I	Topoisomerase II	GLUT1																
<b>In Vitro</b>	<p>3-Fluoro-evodiamine glucose (0-0.5 μM, 12 h) exhibits antiproliferative and cytotoxic property in cancer cells U87MG, A549 and HCT116 with IC<sub>50</sub> range of 0.064–0.113 μM, through induction of reactive oxygen species (ROS) accumulation and DNA damage<sup>[1]</sup>.</p> <p>3-Fluoro-evodiamine glucose (0-0.05 μM, 24 h) inhibits the migration and invasion of cell HCT116 in a dose-dependent manner<sup>[1]</sup>.</p> <p>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>HCT116</td> </tr> <tr> <td>Concentration:</td> <td>0-0.5 μM</td> </tr> <tr> <td>Incubation Time:</td> <td>12 h</td> </tr> <tr> <td>Result:</td> <td>Upregulated levels of γ-H2AX and induced DNA damage.</td> </tr> </table> <p>Cell Migration Assay<sup>[1]</sup></p> <table border="1"> <tr> <td>Cell Line:</td> <td>HCT116</td> </tr> <tr> <td>Concentration:</td> <td>0-0.05 μM</td> </tr> <tr> <td>Incubation Time:</td> <td>24 h</td> </tr> <tr> <td>Result:</td> <td>Repressed the wound heal with the rate of 37%-1.1%.</td> </tr> </table>			Cell Line:	HCT116	Concentration:	0-0.5 μM	Incubation Time:	12 h	Result:	Upregulated levels of γ-H2AX and induced DNA damage.	Cell Line:	HCT116	Concentration:	0-0.05 μM	Incubation Time:	24 h	Result:	Repressed the wound heal with the rate of 37%-1.1%.
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<b>In Vivo</b>	3-Fluoro-evodiamine glucose (10 mg/kg, ip, single dose) a good pharmacokinetic property in mice, with a half life of 2.41 h, a plasma concentration C <sub>max</sub> of 4627 h·ng/mL, an AUC <sub>0-t</sub> of 4008 h·ng/mL and a mean residence time of 0.802 h <sup>[1]</sup> .																		

3-Fluoro-evodiamine glucose (10-20 mg/kg, ip, twice daily for 21 days) exhibits antitumor efficacy with a tumor growth inhibition TGI of 72%-82% in HCT116 xenograft nude mice, without significant toxicity<sup>[1]</sup>.

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	HCT116 xenograft BALB/c nude mice <sup>[1]</sup>
Dosage:	10-20 mg/kg
Administration:	ip, two injections every days for 21 days
Result:	Inhibited tumor growth with TGI of 72-82%, without body weight loss.

## REFERENCES

[1]. Wu Z, et al., Design of Evodiamine-Glucose Conjugates with Improved In Vivo Antitumor Activity. J Med Chem. 2024 May 9;67(9):7373-7384.

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

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