



# SZABO SCANDIC

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## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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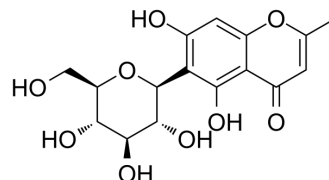
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## Biflorin

<b>Cat. No.:</b>	HY-119956
<b>CAS No.:</b>	89701-85-9
<b>Molecular Formula:</b>	C <sub>16</sub> H <sub>18</sub> O <sub>9</sub>
<b>Molecular Weight:</b>	354.31
<b>Target:</b>	Apoptosis; STAT
<b>Pathway:</b>	Apoptosis; JAK/STAT Signaling; Stem Cell/Wnt
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	Biflorin has antimicrobial, antitumor, antiinflammatory and antimutagenic activities. Biflorin is found in the roots of <i>Capraria biflora</i> L <sup>[1][2][3]</sup> .
<b>IC<sub>50</sub> &amp; Target</b>	STAT1
<b>In Vitro</b>	<p>Biflorin (72 h) inhibits tumor cell growth with IC<sub>50</sub>s ranging from 0.58 µg/mL (NCIH23 cell) to 14.61 µg/mL (MDA-MB-231 cell)<sup>[1]</sup>.</p> <p>Biflorin (3 and 6 µg/mL, 24 h) induces apoptosis, internucleosomal DNA fragmentation, mitochondrial depolarization in B16 melanoma cells<sup>[1]</sup>.</p> <p>Biflorin inhibits LPS-induced production of nitric oxide (NO) and prostaglandin E2 (PGE2) in RAW 264.7 macrophages via STAT1 Inactivation, with IC<sub>50</sub> s of 51.7 and 37.1 µM, respectively<sup>[2]</sup>.</p> <p>Biflorin (5 and 10 µg/mL, 3 h) inhibits H<sub>2</sub>O<sub>2</sub>-induced oxidative damage by reducing lipid peroxidation and DNA damage in V79 mammalian cells<sup>[3]</sup>.</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>
<b>In Vivo</b>	<p>Biflorin (25mg/day, i.p., for 10 days) inhibits tumor growth and increases the mean survival rate in B16 melanoma-bearing mice<sup>[1]</sup>.</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>

### REFERENCES

- [1]. Vasconcellos MC, et al. The in-vitro and in-vivo inhibitory activity of biflorin in melanoma. *Melanoma Res.* 2011 Apr;21(2):106-14.
- [2]. Lee HH, et al. Biflorin, Isolated from the Flower Buds of *Syzygium aromaticum* L., Suppresses LPS-Induced Inflammatory Mediators via STAT1 Inactivation in Macrophages and Protects Mice from Endotoxin Shock. *J Nat Prod.* 2016 Apr 22;79(4):711-20.
- [3]. Vasconcellos MC, et al. Evaluation of the cytotoxic and antimutagenic effects of biflorin, an antitumor 1,4 o-naphthoquinone isolated from *Capraria biflora* L. *Arch Toxicol.* 2010 Oct;84(10):799-810.

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

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