



# 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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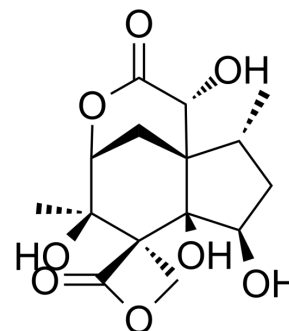
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## Anisatin

<b>Cat. No.:</b>	HY-N9506
<b>CAS No.:</b>	5230-87-5
<b>Molecular Formula:</b>	C <sub>15</sub> H <sub>20</sub> O <sub>8</sub>
<b>Molecular Weight:</b>	328.31
<b>Target:</b>	GABA Receptor
<b>Pathway:</b>	Membrane Transporter/Ion Channel; Neuronal Signaling
<b>Storage:</b>	-20°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



### BIOLOGICAL ACTIVITY

<b>Description</b>	Anisatin, a pure toxic substance isolated from the seeds of a Japanese plant ( <i>Illicium anisatum</i> ) acts as a picrotoxin-like, non-competitive GABA antagonist. Anisatin suppresses GABA-induced currents in a concentration-dependent manner with an EC <sub>50</sub> of ~1.10 μM <sup>[1]</sup> .
<b>In Vitro</b>	Anisatin inhibits [ <sup>3</sup> H]diazepam binding enhanced by either GABA or pentobarbital, without affecting the basal specific binding to rat brain membranes <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
<b>In Vivo</b>	In mice, the LD <sub>50</sub> reported for anisatin ranges from 0.76 to 1 mg/kg (po and ip) <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

- [1]. Ikeda T, et al. Anisatin modulation of the gamma-aminobutyric acid receptor-channel in rat dorsal root ganglion neurons. *Br J Pharmacol.* 1999;127(7):1567-1576.
- [2]. Bao X, et al. Bioavailability and Pharmacokinetics of Anisatin in Mouse Blood by Ultra-Performance Liquid Chromatography-Tandem Mass Spectrometry. *Biomed Res Int.* 2020;2020:8835447. Published 2020 Dec 23.

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

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