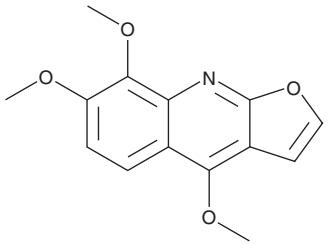
PRODUCT INFORMATION

Skimmianine

Item No. 34643

CAS Registry No.:	83-95-4
Formal Name:	4,7,8-trimethoxy-furo[2,3-b]quinoline
Synonyms:	β-Fagarine, NSC 94654, NSC 217986
MF:	$C_{14}H_{13}NO_4$
FW:	259.3
Purity:	≥98%
UV/Vis.:	λ_{max}: 250 nm
Supplied as:	A solid
Storage:	-20°C
Stability:	≥4 years
Item Origin:	Plant/*Skimmia japonica*



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

Skimmianine is supplied as a solid. A stock solution may be made by dissolving the skimmianine in the solvent of choice, which should be purged with an inert gas. Skimmianine is soluble in ethanol.

Description

Skimmianine is a furoquinoline alkaloid that has been found in *Z. nitidum* and has diverse biological activities.[1-4] It inhibits acetylcholinesterase (AChE; IC_{50} = 8.6 µg/ml for the human enzyme).[1] Skimmianine is active against *P. falciparum* (IC_{50} = 48.2 µg/ml), as well as *L. gongylophorus*, a symbiotic fungus of the agricultural pest *A. sexdens* (leaf-cutting ant).[2,3] It reduces ear edema induced by phorbol 12-myristate 13-acetate (TPA; Item No. 10008014) in mice (ED_{45} = 0.75 mg/ear).[4]

References

1. Yang, Z.-d., Zhang, D.-b., Ren, J., *et al*. Skimmianine, a furoquinoline alkaloid from *Zanthoxylum nitidum* as a potential acetylcholinesterase inhibitor. *Med. Chem. Res.* **21**, 722-725 (2011).
2. Khalid, S.A., Farouk, A., Geary, T.G., *et al*. Potential antimalarial candidates from African plants: And in vitro approach using *Plasmodium falciparum*. *J. Ethnopharmacol.* **15(2)**, 201-209 (1986).
3. Biavatti, M.W., Vieira, P.C., da Silva, M.F.d.G.F., *et al*. Biological activity of quinoline alkaloids from *Raulinoa echinata* and X-ray structure of flindersiamine. *J. Braz. Chem. Soc.* **13(1)**, 66-70 (2002).
4. García-Argáez, A.N., Ramírez Apan, T.O., Parra Delgado, H., *et al*. Anti-inflammatory activity of coumarins from *Decatropis bicolor* on TPA ear mice model. *Planta Med.* **66(3)**, 279-281 (2000).

CAYMAN CHEMICAL
1180 EAST ELLSWORTH RD
ANN ARBOR, MI 48108 · USA
PHONE: [800] 364-9897
[734] 971-3335
FAX: [734] 971-3640
CUSTSERV@CAYMANCHEM.COM
WWW.**CAYMANCHEM**.COM