

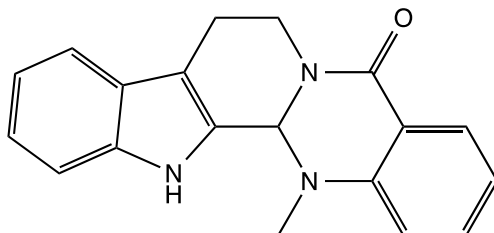
Catalog # 10-2336

Evodiamine

CAS# 518-17-2

8,13,13b,14-Tetrahydro-14-methylindolo[2',3'-3-4]pyrido[2,1-b]quinazolin-5-[7H]-one

Lot # FBA1102



Evodiamine is a quinolone alkaloid isolated from *Evodia rutaecarpa*.¹ *Evodia Rutaecarpa* is a very popular herb used in traditional Chinese medicine to treat a variety of ailments. It has been shown to elicit a variety of biological effects including induction of apoptosis, inhibiting cancer cell proliferation, promoting cell cycle arrest in G2/M, inhibiting invasion and metastasis of cancer cells, inhibiting angiogenesis, induction of oxidative stress and subsequent apoptosis and inhibition of NF- κ B.² It also functions as an agonist of TRPV1 ($EC_{50} = 1.03 \mu\text{M}$)³ and acts as an anti-inflammatory agent⁴.

- 1) Shoji *et al.* (1986) *Isolation of evodiamine, a powerful cardiogenic principle, from Evodia Rutaecarpa Benth (Rutaceae)* *J.Pharm.Sci.* **75** 612
- 2) Jiang and Hu *et al.* (2009) *Evodiamine: A novel anti-cancer alkaloid from Evodia rutaecarpa*. *Molecules* **14** 1852
- 3) Pearce *et al.* (2004) *Evodiamine functions as an agonist for the vanilloid receptor* *Org.Biomol.Chem.* **2** 2281
- 4) Choi *et al.* (2006) *Anti-inflammatory principles from the fruits of Evodia rutaecarpa and their cellular action mechanisms* *Arch.Pharm.Res.* **29** 293

PHYSICAL DATA

Molecular Weight:	303.36
Molecular Formula:	C ₁₉ H ₁₇ N ₃ O
Purity:	>98% (TLC: 5% Methanol/methylene chloride + 0.5% HOAc; R _f = 0.21)
Solubility:	DMSO (5 mg/ml)
Physical Description:	Yellow solid
Storage and Stability:	Store as supplied at -20°C for up to one year from the date of purchase. Solutions in DMSO may be stored at -20°C for up to 2 months

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