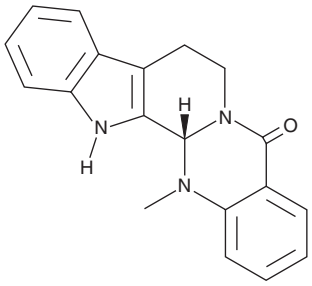
PRODUCT INFORMATION

(+)-Evodiamine

Item No. 16885

CAS Registry No.:	518-17-2
Formal Name:	8,13,13bS,14-tetrahydro-14-methyl-indolo[2',3':3,4]pyrido[2,1-b]quinazolin-5(7H)-one
Synonym:	D-Evodiamine
MF:	$C_{19}H_{17}N_3O$
FW:	303.4
Purity:	≥98%
UV/Vis.:	λ_{max}: 224, 270 nm
Supplied as:	A crystalline solid
Storage:	-20°C
Stability:	≥4 years



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

Laboratory Procedures

(+)-Evodiamine is supplied as a crystalline solid. A stock solution may be made by dissolving the (+)-evodiamine in the solvent of choice, which should be purged with an inert gas. (+)-Evodiamine is soluble in organic solvents such as DMSO and dimethyl formamide. The solubility of (+)-evodiamine in these solvents is approximately 1 and 2 mg/ml, respectively.

Description

Evodiamine is a natural indole alkaloid found in the fruits of Wu Zhu Yu, a plant used in traditional Chinese medicine. Studies involving evodiamine have demonstrated beneficial effects in cancer, obesity, inflammation, and many other conditions.[1-3] It can act as an aryl hydrocarbon antagonist (K_i = 28 nM), activator of the transient receptor potential vanilloid 1 channel (EC_{50} = 45 nM), and inhibit signaling through NF-κB.[1,4,5]

References

1. Yu, H., Gong, W., Wang, Z., *et al.* Pharmacological actions of multi-target-directed evodiamine. *Molecules* **18(2)**, 1826-1843 (2013).
2. Wang, T., Wang, X., and Yamashita, H. Evodiamine inhibits adipogenesis via the EGFR-PKCα-ERK signaling pathway. *FEBS Lett.* **583(22)**, 3655-3659 (2009).
3. Ogasawara, M., Matsubara, T., and Suzuki, H. Screening of natural compounds for inhibitory activity on colon cancer cell migration. *Biol. Pharm. Bull.* **24(6)**, 720-723 (2001).
4. Pearce, L.V., Petukhov, P.A., Szabo, T., *et al.* Evodiamine functions as an agonist for the vanilloid receptor TRPV1. *Org. Biomol. Chem.* **2**, 2281-2286 (2004).
5. Takada, Y., Kobayashi, Y., and Aggarwal, B.B. Evodiamine abolishes constitutive and inducible NF-κB activation by inhibiting IκBα kinase activation, thereby suppressing NF-κB-regulated antiapoptotic and metastatic gene expression, up-regulating apoptosis, and inhibiting invasion. *J. Biol. Chem.* **280(17)**, 17203-17212 (2005).

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