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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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PRODUCT INFORMATION

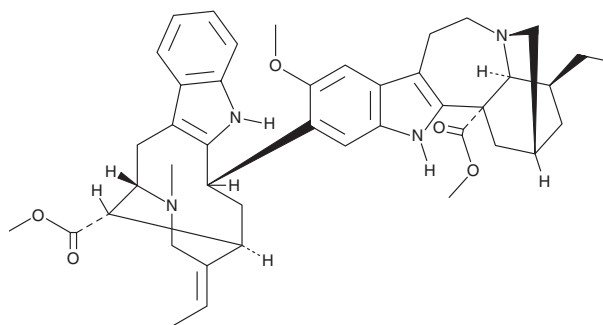


Voacamine

Item No. 25204

CAS Registry No.: 3371-85-5
Formal Name: 12-methoxy-13-[(3 α)-17-methoxy-17-oxovobasan-3-yl]-ibogamine-18-carboxylic acid, methyl ester

Synonym: NSC 82591
MF: C₄₃H₅₂N₄O₅
FW: 704.9
Purity: \geq 98%
UV/Vis.: λ_{max} : 226, 295 nm
Supplied as: A crystalline solid
Storage: -20°C
Stability: \geq 2 years



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

Laboratory Procedures

Voacamine is supplied as a crystalline solid. A stock solution may be made by dissolving the voacamine in the solvent of choice. Voacamine is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide, which should be purged with an inert gas. The solubility of voacamine in these solvents is approximately 5, 20, and 30 mg/ml, respectively.

Description

Voacamine is an alkaloid originally isolated from *Voacanga* that has diverse biological activities.¹ It is a cannabinoid receptor 1 (CB₁) antagonist (IC₅₀ = 41 nM).² Voacamine (1-10 μ g/ml) time- and dose-dependently decreases survival of U2OS and multi-drug resistant U2OS (U2OS/DX) osteosarcoma cells and induces autophagy but not apoptosis.³ It also has antimalarial activity, inhibiting growth of *P. falciparum* *in vitro* at the trophozoite and schizont stages and reducing parasitemia in mice infected with *P. yoelii* when administered at doses of 2.5, 5, and 10 mg/kg.⁴

References

1. Quevauviller, A., Goutarel, R., and Janot, M.M. Pharmacology of the alkaloids of *Voacanga* species. *Ann. Pharm. Fr.* **13**, 423-424 (1955).
2. Kitajima, M., Iwai, M., Kikura-Hanajiri, R., *et al.* Discovery of indole alkaloids with cannabinoid CB₁ receptor antagonistic activity. *Bioorg. Med. Chem. Lett.* **21(7)**, 1962-1964 (2011).
3. Meschini, S., Condello, M., Calcabrini, A., *et al.* The plant alkaloid voacamine induces apoptosis-independent autophagic cell death on both sensitive and multidrug resistant human osteosarcoma cells. *Autophagy* **4(8)**, 1020-1033 (2008).
4. Ramanitrahasimbola, D., Rasoanaivo, P., Ratsimamanga-Urverg, S., *et al.* Biological activities of the plant-derived bisindole voacamine with reference to malaria. *Phytother. Res.* **15(1)**, 30-33 (2001).

WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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