Voacamine

Item No. 25204

CAS Registry No.: 3371-85-5
Formal Name: 12-methoxy-13-[(3α)-17-methoxy-17-oxovobasan-3-yl]-ibogamine-18-carboxylic acid, methyl ester
Synonym: NSC 82591
MF: C_{43}H_{52}N_{4}O_{5}
FW: 704.9
Purity: ≥98%

UV/Vis.: λ_{max}: 226, 295 nm

Supplied as: A crystalline solid
Storage: -20°C
Stability: ≥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 (CB\(_1\)) antagonist (IC\(_{50} = 41\) nM).\(^2\) Voacamine (1-10 µg/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