PRODUCT INFORMATION

(-)-Voacangarine
Item No. 25468

CAS Registry No.: 545-84-6
Formal Name: 20S-hydroxy-12-methoxy-ibogamine-18-carboxylic acid, methyl ester
Synonyms: NSC 306219, (-)-Voacristine
MF: C_{22}H_{28}N_{2}O_{4}
FW: 384.5
Purity: ≥98%
UV/Vis.: λ\text{max} = 219, 280 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

(-)-Voacangarine is supplied as a crystalline solid. A stock solution may be made by dissolving the (-)-voacangarine in the solvent of choice. (-)-Voacangarine is soluble in organic solvents such as DMSO and dimethyl formamide, which should be purged with an inert gas. The solubility of (-)-voacangarine in these solvents is approximately 16 mg/ml.

(-)-Voacangarine is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, (-)-voacangarine should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. (-)-Voacangarine has a solubility of approximately 0.33 mg/ml in a 1:3 solution of DMSO:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

(-)-Voacangarine is an indole alkaloid originally isolated from \textit{V. africana} that is cytotoxic to HepG2, A375, MDA-MB-231, SH-SY5Y, and CT26 cells (IC_{50} = 20 μg/ml).\textsuperscript{1,2} It is cytostatic to wild-type \textit{S. cerevisiae} and cytotoxic to Δ\textit{rad3-e5} and Δ\textit{rad6-1} mutant \textit{S. cerevisiae}, which are defective in DNA strand break repair and the mutagenic repair pathway, respectively.\textsuperscript{3}

References