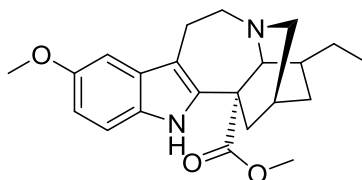


Voacangine

Code No.: **BIA-V1750**

Pack sizes: **0.1 mg, 2.5 mg**



Synonyms : (-)-Voacangine, 10-Methoxycoronaridine, Carbomethoxyibogaine

Specifications

CAS #	: 510-22-5
Molecular Formula	: C₂₂H₂₈N₂O₃
Molecular Weight	: 368.5
Source	: <i>Rejoua aurantiaca</i>
Appearance	: Light tan solid
Purity	: >95% by HPLC
Long Term Storage	: -20°C
Solubility	: Soluble in ethanol, methanol, DMF or DMSO.

Application Notes

Voacangine is an indole alkaloid derived from various species of Voacanga, indigenous to Africa. In the Pacific region, voacangine was successfully isolated from *Tabernaemontana aurantiaca* (syn. *Rejoua aurantiaca*) from the coastal districts of New Guinea by Ritchie and Taylor, University of Sydney, Australia in 1965. Voacangine inhibits angiogenesis in HUVEC lines in vitro and in vivo. Voacangine decreases the expression of hypoxia inducible factor-1 α and its target gene, VEGF, in a dose-dependent manner. Voacangine is a transient antagonist of thermosensitive TRPV1 and TRPM8, and an agonist of TRPA1. Voacangine is also active against *Onchocerca*.

References

1. Pharmacology of the alkaloids of Voacanga species. Quevauviller A. et al., Annales Pharmaceutiques Francaises 1955, 13, 423.
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3. A natural small molecule voacangine inhibits angiogenesis both in vitro and in vivo. Kim Y. et al., Biochem. Biophys. Res. Commun. 2012, 417, 330.
4. Activation and inhibition of thermosensitive TRP channels by voacangine, an alkaloid present in Voacanga africana, an African tree. Terada Y. et al., J. Nat. Prod. 2014, 77, 285.
5. Review on medicinal plants and natural compounds as anti-onchocerca agents. Ndjonga D. et al., Parasitol. Res. 2018, 117, 2697.