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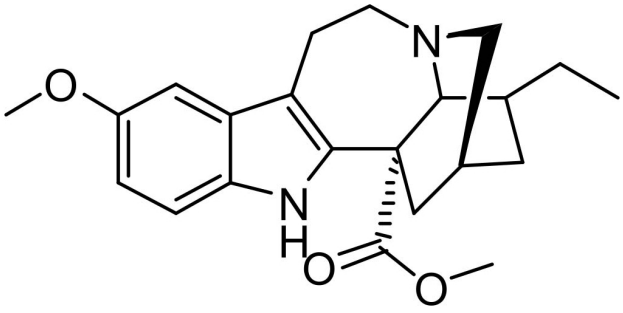
PRODUCT DATA SHEET

Code No.: BIA-V1750

Voacangine

Pack sizes.: 0.1mg, 2.5mg



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

Specifications

CAS #	**: 510-22-5**
Molecular Formula	**: C22H28N2O3**
Molecular Weight	**: 368.48**
Source	**: -**
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 dsitricts 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-1α 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.
2. Some constituents of Rejoua aurantiaca Gaud. and Voacanga papuana (F. Muell.) K. Schum. Guise G.B. et al., Aust. J. Chem. 1965, 18, 927.
3. A natural small molecule voacangine inhibits angiogenesis both in vitro and in vivo. Kim Y. et al., Biochem. Biophy.s Res. Commun. 2012, 417, 330.
4. Review on medicinal plants and natural compounds as anti-onchocerca agents. Ndjonka D. et al., Parasitol. Res. 2018, 117, 2697.