

Product Data Sheet

Product Name: Voacangine

Cat. No.: GC18388

Chemical Properties

Cas. No. 510-22-5

Chemical Name 12-methoxy-ibogamine-18-carboxylic acid, methyl ester

SMILES [H][C@]12[C@@H](CC)C[C@]3([H])C[C@@]1(C(OC)=O)C4=C(C(C=C(OC)C=C5)=C5N4)CC[N@]2C3

Formula C₂₂H₂₈N₂O₃

M.Wt 368.5

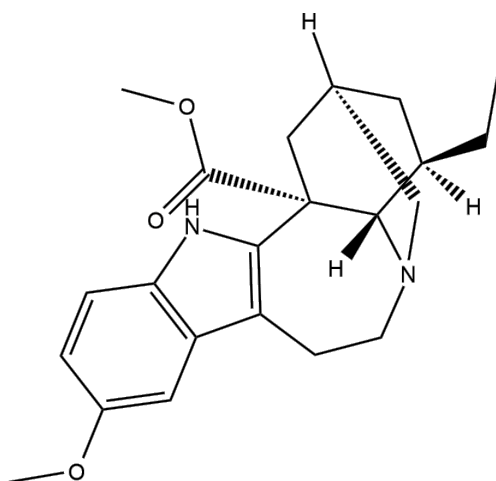
Solubility DMF: 16 mg/ml, DMSO: 16 mg/ml, DMSO:PBS(pH 7.2) (1:3): 0.33 mg/ml

Storage Store at -20°C, protect from light

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice. All other available size: ship with RT, or blue ice upon request.

Structure



Background

Voacangine is an indole alkaloid that has been found in *T. citrifolia*, *V. africana*, *V. obtusa*, and *T. iboga* with diverse biological activities. It inhibits the growth of *M. tuberculosis*, *M. avium*, and *M.*

Caution: Product has not been fully validated for medical applications. For research use only.

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kansasii with MIC values of 50, >200, and 100 µg/mL, respectively. Voacangine (0.01-100 µM) dose-dependently reduces membrane currents in HEK293 cells expressing the hERG potassium channel and displaces the hERG ligand dofetilide with a K_i value of 3.9 µM. Voacangine suppresses agonist-induced activation of transient receptor potential (TRP) channels with IC_{50} values of 50 and 9 µM for activation induced by the TRPV1 agonist capsaicin and the TRPM8 agonist menthol, respectively. It also activates TRPA1 channels and stimulates calcium influx (IC_{50} = 8 µM in HEK293 cells expressing TRPA1), an effect that is blocked by the TRPA1 blocker HC-030031. In vivo, voacangine (2 and 4 µg per egg) inhibits angiogenesis in chick embryo chorioallantoic membranes without apparent cytotoxicity.

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