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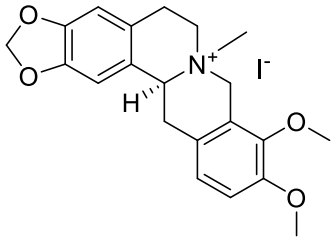
PRODUCT DATA SHEET

N-Methylcanadine

Code No.: **BIA-C2974**

Pack sizes: **1 mg, 5 mg**



Synonyms : (-)-N-Methylcanadine

Specifications

CAS #	:	**47474-49-7**
Molecular Formula	:	**$C_{21}H_{24}NO_4$**
Molecular Weight	:	**354.4**
Source	:	***Corydalis* sp.**
Appearance	:	**White solid**
Purity	:	**>95% by HPLC**
Long Term Storage	:	**-20°C**
Solubility	:	**Soluble in methanol, DMSO.**

Application Notes

N-Methylcanadine is an isoquinoline alkaloid isolated from a number of plant species including Corydalis, Fagara and Zanthoxylum. N-Methylcanadine, a precursor of noscapine biosynthesis in the opium poppy, is a major active constituent in the Papaveraceae family. Mixtures containing N-methylcanadine are reported to have potent antibacterial activity.

References

1. Characterization of N-methylcanadine and N-methylstylopine metabolites in rat liver S9 by high-performance liquid chromatography/quadrupole time-of-flight mass spectrometry. Zuo M-T. et al. RCM 2018, 32, 2047.
2. Engineering of CYP82Y1, a cytochrome P450 monooxygenase: a key enzyme in noscapine biosynthesis in opium poppy. Arghaali Z. & Naghavi M.R. Biochem. J. 2023, 480, 2009.
3. Hypecoum spp. chemistry and biological activity of alkaloids. Kostova N. & Doncheva T. Diversity 2023, 15, 1023.

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Updated: 14 November 2025

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Building C, 28-54 Percival Road, Smithfield, NSW 2164, AUSTRALIA

Tel: 61 2 9757 4515 Fax: 61 2 9757 2586 Web: www.bioaustralis.com Email: info@bioaustralis.com