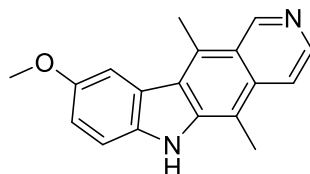


9-Methoxyellipticine

Code No.: **BIA-M1952**

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



Synonyms : 9-Methoxyellipticin, NSC 69187

Specifications

| | |
|-------------------|--|
| CAS # | : 10371-86-5 |
| Molecular Formula | : C ₁₈ H ₁₆ N ₂ O |
| Molecular Weight | : 276.33 |
| Source | : <i>Bleekeria</i> sp. |
| Appearance | : Yellow solid |
| Purity | : >95% by HPLC |
| Long Term Storage | : -20°C |
| Solubility | : Soluble in methanol or DMSO |

Application Notes

9-Methoxyellipticine is an alkaloid constituent of *Bleekeria* sp.. 9-Methoxyellipticine is a potent antitumor agent with IC₅₀ values of 0.39, 1.9 and 0.39 μmol when tested against a range of human cell lines, including MCF7, its multidrug-resistant counterpart VCREMS,MDA-MB-231 and thTERT-HME1, respectively. 9-Methoxyellipticine inhibits the growth of and DNA, RNA and protein synthesis by L1210 leukemia cells via intercalation. 9-Methoxyellipticine is also a potent antioxidant in DPPH and FRAP assays and induces haemolysis in human red blood cells. Extracts containing 9-methoxyellipticine inhibit Cdc25s phosphatases and are active in the carrageenan-induced rat paw edema assay. 9-Methoxyellipticine is also active against plasmodia and trypanosomes.

References

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3. Biochemical effects of ellipticine on leukemia L1210 cells. Li L.H. et al. Biochim Biophys Acta, Nucleic Acids Protein Synth. 1974, 353, 375.
4. A possible mechanism of ellipticine-induced hemolysis. Lee I.P. et al. J Pharmacol Exp Ther. 1976, 196, 52.
5. Antiplasmodial activity of synthetic ellipticine derivatives and an isolated analog. Montoia A. et al. Bioorg Med Chem Lett. 2014, 24, 2631.