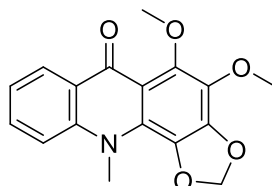


## Melicopine

Code No.: **BIA-M1953**

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



Synonyms : NSC 34758

### Specifications

CAS #	: <b>568-01-4</b>
Molecular Formula	: <b>C<sub>17</sub>H<sub>15</sub>NO<sub>5</sub></b>
Molecular Weight	: <b>313.3</b>
Source	: <b><i>Melicope</i> sp.</b>
Appearance	: <b>Yellow solid</b>
Purity	: <b>&gt;95% by HPLC</b>
Long Term Storage	: <b>-20°C</b>
Solubility	: <b>Soluble in methanol or DMSO</b>

### Application Notes

Melicopine an acridine with a highly substituted benzenoid ring is isolated from a number of species in the Rutaceae family, including *Melicope fareana*. The structure of melicopine was originally identified by Price and Crow, CSIRO Australia in 1949. The pharmacology of melicopine has been little explored, however it is active against prostate cancer cell lines, PC-3M and LNCaP (IC<sub>50</sub> 36 and 28 µg/mL, respectively), and Plasmodium falciparum strains 3D7 and Dd2 (IC<sub>50</sub> 22 and 26 µg/mL, respectively), being less potent than its nor-analogue.

### References

1. Alkaloids of the Australian Rutaceae: *Melicope fareana*. II. Preliminary examination of melicopine, melicopidine, and melicopicine. Crow W.D. & Price J.R. Aust J Sci Res. 1949, 2, 255.
2. Acridone alkaloids with cytotoxic and antimalarial activities from *Zanthoxylum simullans* Hance. Wang C. et al. Pharmacognosy Magazine 2014, 10, 73.