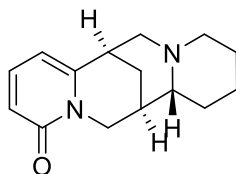


Anagryne

Code No.: **BIA-A1939**

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



Synonyms : (-)-Anagryne, (-)-Rhombinine, Monolupin, Monolupine, Rhombinin, Rhombinine

Specifications

CAS #	: 486-89-5
Molecular Formula	: C ₁₅ H ₂₀ N ₂ O
Molecular Weight	: 244.33
Source	: <i>Genista tinctoria</i>
Appearance	: White solid
Purity	: >95% by HPLC
Long Term Storage	: -20°C
Solubility	: Soluble in methanol or DMSO

Application Notes

Anagryne is a teratogenic quinolizidine alkaloid found in *Lupinus* sp. which undergoes metabolism to a piperidine that causes crooked calf syndrome. Anagryne, but not lupanine or sparteine, directly desensitize nicotinic acetylcholine receptors (nAChR) in a cell culture model. Anagryne is reported to have antiarrhythmic, tachycardic, diuretic and purgative properties. Extracts containing anagryne have antifungal activity.

References

1. Lupin alkaloids from teratogenic and nonteratogenic lupins. IV. Concentration of total alkaloids, individual major alkaloids, and the teratogen anagryne as a function of plant part and stage of growth and their relationship to crooked calf disease. Keeler R.F. et al. *J. Tox. Env. Health* 1976, 1, 899.
2. Anagryne desensitization of peripheral nicotinic acetylcholine receptors. A potential biomarker of quinolizidine alkaloid teratogenesis in cattle. Green B.T. et al. *Res Vet Sci* 2017, 115, 195.
3. Antifungal activity of the alkaloids extracts from aerial parts of *Retama monosperma*. El Handani N. et al. *Res J Pharm Biol Chem Sci* 2016, 7, 965.