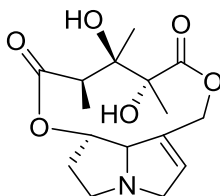


Monocrotaline

Code No.: **BIA-M1801**

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



Synonyms : (-)-Monocrotaline

Specifications

CAS #	: 315-22-0
Molecular Formula	: C ₁₆ H ₂₃ NO ₆
Molecular Weight	: 325.4
Source	: <i>Crotalaria</i> sp.
Appearance	: White to pale yellow solid
Purity	: >95% by HPLC
Long Term Storage	: -20°C
Solubility	: Soluble in ethanol, methanol, DMF or DMSO.

Application Notes

Monocrotaline is an 11-membered macrocyclic pyrrolizidine alkaloid derived from members of the *Crotalaria* species, long known to cause poisoning among livestock. Monocrotaline causes pulmonary artery hypertension, right ventricular hypertrophy, and pathological changes in the pulmonary vasculature in rats. Cardiopulmonary changes induced by monocrotaline are attenuated by treatment with oral magnesium. Monocrotaline is used in animal models of pulmonary arterial hypertension.

References

1. Pathological changes in rats as a result of treatment with monocrotaline. Schoental R. & Head M.A., Br. J. Cancer 1955, 9, 229.
2. Monocrotaline induces endothelial injury and pulmonary hypertension by targeting the extracellular calcium-sensing receptor. Xiao R. et al., J. Am. Heart Assoc. 2017, 6, doi: 10.1161/JAHA.116.004865.
3. Exploring the monocrotaline animal model for the study of pulmonary arterial hypertension. Nogueira-Ferreira R. et al., Pulm. Pharmacol. Ther. 2015, 35, 8.