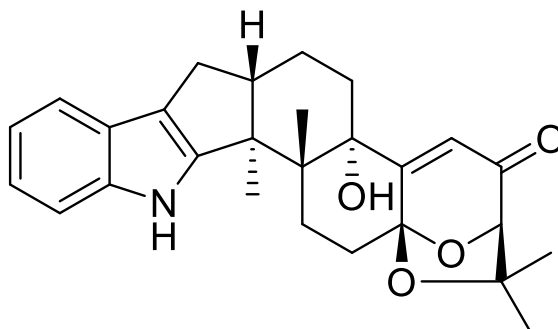


Paspalinine

Code No.: **BIA-P2944**

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



Synonyms : (+)-Paspalinine, 11-Hydroxypaspalicine, Paspalinin

Specifications

CAS #	: 63722-91-8
Molecular Formula	: C ₂₇ H ₃₁ NO ₄
Molecular Weight	: 433.5
Source	: <i>Aspergillus</i> sp.
Appearance	: White to off-white solid
Purity	: >95% by HPLC
Long Term Storage	: -20°C
Solubility	: Soluble in ethanol, methanol, DMF or DMSO.

Application Notes

Paspalinine is a tremorgenic diterpene indole alkaloid first isolated from *Claviceps paspali* by Clardy and co-workers in 1980 and subsequently detected in various *Penicillium* and *Aspergillus* species. Paspalinine is a causative agent of neurological disorders in cattle feeding on pastures infected with *Claviceps paspali*, possibly due to inhibition of high-conductance Ca²⁺-activated K⁺ (maxi-K) channels. Paspalinine has anti-insectan properties.

References

1. Paspalinine, a tremorgenic metabolite from *Claviceps paspali* Stevens et Hall. Gallagher R.T. et al. *Tetrahedron Lett* 1980, 21, 235.
2. Paspalum staggers: isolation and identification of tremorgenic metabolites from sclerotia of *Claviceps paspali*. Cole R. et al. *J Ag Food Chem* 1977, 25, 1197.
3. Tremorgenic indole alkaloids potently inhibit smooth muscle high-conductance calcium-activated potassium channels. Knaus H-G. et al. *Biochem* 1994, 33, 5819.
4. Aflavarin and β-aflatrein: new anti-insectan metabolites from the sclerotia of *Aspergillus flavus*. TePaske M.R. et al. *J Nat Prod* 1992, 55, 1080.