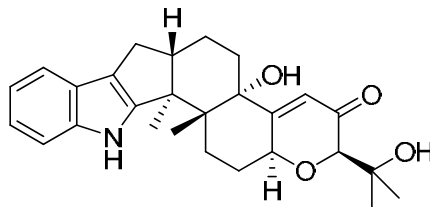


# Paxilline

Code: **BIA-P1271**

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



Synonyms : -

## Specifications

CAS #	: 57186-25-1
Molecular Formula	: C <sub>27</sub> H <sub>33</sub> NO <sub>4</sub>
Molecular Weight	: 435.6
Source	: <i>Penicillium paxilli</i>
Appearance	: White powder
Purity	: > 99% by HPLC
Storage	: -20°C
Solubility	: Soluble in ethanol, methanol, DMF or DMSO. Very poor water solubility.

## Application Notes

Paxilline is a tremorgenic mycotoxin isolated from species of *Penicillium*, *Acremonium* and *Emericella*. Paxilline acts as a selective blocker of high-conductance  $\text{Ca}^{2+}$ -activated potassium channels and has been shown to inhibit binding to the cerebellar inositol 1,4,5-triphosphate (InsP(3)) receptor.

## References

1. A new tremorgenic metabolite from *Penicillium paxilli*. Cole R. J. et al. Can. J. Microbiol. 1974, 20, 1159.
2. Characterization of high affinity binding sites for charybdotoxin in synaptic plasma membranes from rat brain. Evidence for a direct association with an inactivating, voltage-dependent, potassium channel. Vazquez J. et al. J. Biol. Chem. 1990, 265, 1556.
3. Paxilline inhibition of the alpha-subunit of the high-conductance calcium-activated potassium channel. Sanchez M. & McManus O. B. Neuropharmacology 1996, 35, 963.