

Product Name:	Paxilline
Product Number:	P072
CAS Number:	57186-25-1
Molecular Formula:	$C_{27}H_{33}NO_4$
Molecular Weight:	435.6
Appearance:	White solid
Description:	Paxilline is a tremorgenic mycotoxin isolated from species of <i>Penicillium</i> , <i>Acremonium</i> and <i>Emericella</i> .
Mechanism of Action:	<p>Paxilline is soluble in ethanol, methanol, DMF or DMSO. Poor water solubility.</p> <p>Paxilline selectively blocks high-conductance Ca^{2+}-activated potassium channels and inhibits binding to the cerebellar inositol 1,4,5-triphosphate (InsP(3)) receptor.</p>
References:	<p>A new tremorgenic metabolite from <i>Penicillium paxilli</i>. Cole R. J. et al. <i>Can. J. Microbiol.</i> 1974, 20, 1159.</p> <p>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. <i>J. Biol. Chem.</i> 1990, 265, 1556.</p> <p>Paxilline inhibition of the alpha-subunit of the high-conductance calcium-activated potassium channel. Sanchez M. & McManus O. B. <i>Neuropharmacology</i> 1996, 35, 963.</p>