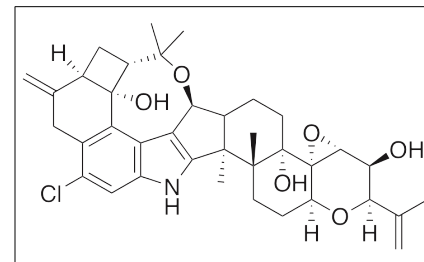


Product Information

Product ID P1952
 CAS No. 12627-35-9
 Chemical Name

Synonym Tremortin A

Formula $C_{37}H_{44}ClNO_6$
 Formula Wt. 634.20
 Melting Point 224-230°C(dec)
 Purity ≥98%
 Solubility Acetone, Methanol, and DMSO.



Bulk quantities available upon request

Product ID	Size
P1952	1 mg
P1952	5 mg

Store Temp 4°C
 Ship Temp Ambient

Description Penitrem A is a neuroactive mycotoxin initially produced by species of *Penicillium*. Penitrem A exhibits tremorgenic activity. In vitro and in vivo, penitrem A inhibits Ca^{2+} /voltage-sensitive K^+ (BK) channels. Penitrem A also potentiates GABA-A receptor function in the forebrain and inhibits uptake of GABA and glutamate into synaptosomes. Additionally, penitrem A may disrupt learning acquisition but not memory or task performance in animal models examining passive avoidance testing.

References Moldes-Anaya A, Rundberget T, Fæste CK, et al. Neurotoxicity of *Penicillium crustosum* secondary metabolites: tremorgenic activity of orally administered penitrem A and thomitrem A and E in mice. *Toxicol.* 2012 Dec 15;60(8):1428-35. PMID: 23085423.

Asano S, Bratz IN, Berwick ZC, et al. Penitrem A as a tool for understanding the role of large conductance Ca^{2+} /voltage-sensitive K^+ channels in vascular function. *J Pharmacol Exp Ther.* 2012 Aug;342(2):453-60. PMID: 22580348.

Moldes-Anaya AS, Fonnum F, Eriksen GS, et al. In vitro neuropharmacological evaluation of penitrem-induced tremorgenic syndromes: importance of the GABAergic system. *Neurochem Int.* 2011 Dec;59(7):1074-81. PMID: 21924313.

Deschaux O, Bizot JC. Effects of penitrem A on rat's performances in passive avoidance and Morris water maze tests. *Mycopathologia.* 1997;138(2):99-104. PMID: 9433810.

Caution: This product is intended for laboratory and research use only. It is not for human or drug use.