



LKT Laboratories, Inc.

## Penitrem A

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### Product Information

Product ID P1952

CAS No. 12627-35-9

**Chemical Name**

Synonym Tremortin A

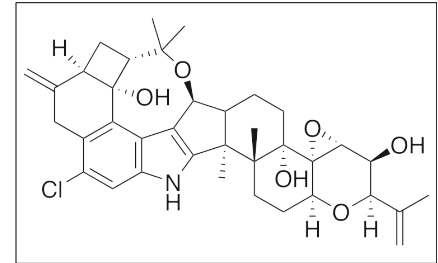
Formula  $C_{37}H_{44}ClNO_6$

Formula Wt. 634.20

Melting Point 224-230°C(dec)

Purity ≥98%

Solubility Acetone, Methanol, and DMSO.



### Pricing and Availability

**Bulk quantities available upon request**

Product ID	Size	List Price
P1952	1 mg	\$102.10
P1952	5 mg	\$490.40

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<sup>2+</sup>/voltage-sensitive K<sup>+</sup> (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.