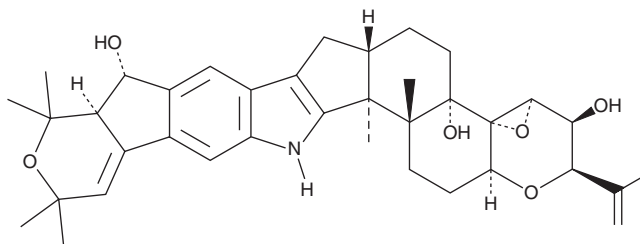


PRODUCT INFORMATION



Janthitrem A Item No. 30166

CAS Registry No.: 73561-89-4
Formal Name: (2R,3S,3aR,4aS,4bS,6aS,9S,9aR,15bS,15cR,17aS)-10,10,12,12,15b,15c-hexamethyl-2-(prop-1-en-2-yl)-3,3a,5,6,6a,7,9,9a,10,12,15,15b,15c,16,17,17a-hexadecahydro-2H,4bH-oxireno[2",3":4',4a']chromeno[5',6':6,7]indeno[1,2-b]pyrano[4',3':3,4]cyclopenta[1,2-f]indole-3,4b,9-triol
Synonym: 11,12-Epoxyjanthitrem B
MF: C₃₇H₄₇NO₆
FW: 601.8
Purity: ≥95%
Supplied as: A solid
Storage: -20°C
Stability: ≥4 years
Item Origin: Fungus/*Penicillium* sp.



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

Janthitrem A is supplied as a solid. A stock solution may be made by dissolving the janthitrem A in the solvent of choice, which should be purged with an inert gas. Janthitrem A is soluble in methanol, ethanol, DMSO, and dimethyl formamide.

Description

Janthitrem A is a mycotoxin that has been found in *P. janthinellum*.¹ It induces tremors in mice and decreases the time to fall from the rotarod when administered at a dose of 4 mg/kg.² Janthitrem A (20 µg/g) also reduces *W. cervinata* larvae weight gain and food consumption.

References

1. Gallagher, R.T., Latch, G.C., and Keogh, R.G. The janthitrems: Fluorescent tremorgenic toxins produced by *Penicillium janthinellum* isolates from ryegrass pastures. *Appl. Environ. Microbiol.* **39(1)**, 272-273 (1980).
2. Babu, J.V., Popay, A.J., Miles, C.O., et al. Identification and structure elucidation of janthitrems A and D from *Penicillium janthinellum* and determination of the tremorgenic and anti-insect activity of janthitrems A and B. *J. Agric. Food Chem.* **66(50)**, 13116-13125 (2018).

WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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CAYMAN CHEMICAL

1180 EAST ELLSWORTH RD
ANN ARBOR, MI 48108 · USA

PHONE: [800] 364-9897

[734] 971-3335

FAX: [734] 971-3640

CUSTSERV@CAYMANCHEM.COM

WWW.CAYMANCHEM.COM