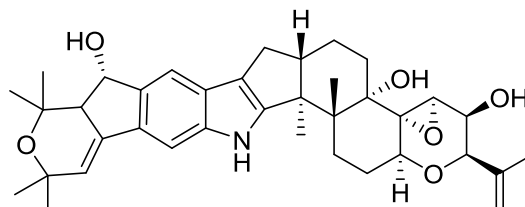


Janthitrem A

Code No.: **BIA-J1832**

Pack sizes: **0.5 mg, 2.5 mg**



Synonyms : 11,12-Epoxyjanthitrem B

Specifications

CAS #	: 73561-89-4
Molecular Formula	: C ₃₇ H ₄₇ NO ₆
Molecular Weight	: 601.8
Source	: <i>Penicillium</i> sp.
Appearance	: Pale Brown Solid
Purity	: >95% by HPLC
Long Term Storage	: -20°C
Solubility	: Soluble in ethanol, methanol, DMF or DMSO.

Application Notes

Janthitrem A is a fluorescent indole-diterpenoid tremorgenic mycotoxin produced by *Penicillium janthinellum*-infected rye grass discovered by Gallagher and colleagues at CSIR, New Zealand in 1980. Interestingly, the structure of janthitrem A was only published in 2018, some 16 years after janthitrem B and C. Janthitrem A is related to the paspalinines, loitrems, paxillins and terpendoles. Janthitrem A induces tremors in mice and livestock, and reduces feeding in Porina moth (*Wiseana cervinata*) larvae.

References

1. The janthitremes: fluorescent tremorgenic toxins produced by *Penicillium janthinellum* isolates from ryegrass pastures. Gallagher R.T. et al., Appl. Env. Microbiol. 1980, 39, 272.
2. High-performance liquid chromatography of the janthitremes: fluorescent tremorgenic mycotoxins produced by *Penicillium janthinellum*. Lauren D.R., J. Chromatog. A. 1982, 248, 272.
3. Identification and structure elucidation of janthitremes A and D from *Penicillium janthinellum* and determination of the tremorgenic and anti-insect activity of janthitremes A and B. Babu J.V. et al., J. Agric. Food Chem. 2018, 66, 13116.