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Produktinformation



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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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PRODUCT INFORMATION



Thaxtomin A

Item No. 15601

CAS Registry No.: 122380-18-1

Formal Name: (3R,6S)-3-hydroxy-3-[(3-hydroxyphenyl)methyl]-1,4-dimethyl-6-[(4-nitro-1H-indol-3-yl)methyl]-2,5-piperazinedione

MF: $C_{22}H_{22}N_4O_6$

FW: 438.4

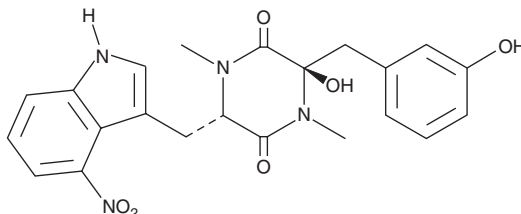
Purity: $\geq 98\%$

Supplied as: A solid

Storage: -20°C

Stability: ≥ 2 years

Item Origin: Bacterium/*Streptomyces bottropensis* Gö-Dra 17



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

Laboratory Procedures

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

Description

Thaxtomin A is a major phytotoxin produced by *S. scabies*, gram-positive soil bacterium responsible for producing scabs on tubers and root vegetables.¹ This bacterial metabolite acts as a virulence factor in the common scab potato disease and demonstrates herbicidal activity against the dicotyledon weeds *B. campestris* and *A. retroflexus*.²

References

1. Lerat, S., Simao-Beaunoir, A.M., Wu, R., *et al.* Involvement of the plant polymer suberin and the disaccharide cellobiose in triggering thaxtomin A biosynthesis, a phytotoxin produced by the pathogenic agent *Streptomyces scabies*. *Phytopathology* **100**(1), 91-96 (2010).
2. Zhang, H., Ning, X., Hang, H., *et al.* Total synthesis of thaxtomin A and its stereoisomers and findings of their biological activities. *Org. Lett.* **15**(22), 5670-5673 (2013).

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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