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_{4}O_{6}
FW: 438.4
Purity: ≥98%
Supplier as: A solid
Storage: -20°C
Stability: ≥2 years

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