PRODUCT INFORMATION

Pseurotin A
Item No. 14441

CAS Registry No.: 58523-30-1
Formal Name: (5S)-8S-benzoyl-2-[15,25-dihydroxy-3Z-hexen-1-yl]-9R-hydroxy-8-methoxy-3-methyl-1-oxa-7-azaspiro[4.4]non-2-ene-4,6-dione
Synonym: NSC 348694
MF: C_{22}H_{25}NO_{8}
FW: 431.4
Purity: ≥98%
Supplied as: A powder
Storage: -20°C
Stability: ≥4 years
Item Origin: Fungus/Aspergillus fumigatus

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

Laboratory Procedures

Pseurotin A is supplied as a powder. A stock solution may be made by dissolving the pseurotin A in the solvent of choice, which should be purged with an inert gas. Pseurotin A is soluble in the organic solvent methanol.

Description

Pseurotin A is a secondary metabolite produced by Aspergillus and other fungi. Its expression is induced in response to hypoxia. Pseurotin A has been shown to inhibit IgE production by mouse B cells in culture (IC_{50} = 3.6 μM) and dose-dependently (0.4-25 μg/ml) stimulate neuritogenic activity in rat pheochromocytoma PC12 cells. It also demonstrates nematicidal activity at 300 μg/ml.

References