PRODUCT INFORMATION

(+) - Aphidicolin
Item No. 14007

CAS Registry No.: 38966-21-1
Formal Name: (3R,4R,4aR,6aS,8R,9R,11aS,11bS)-
tetradecahydro-3,9-dihydroxy-4,11b-
dimethyl-8,11a-methano-11aH-
cyclohepta[a]naphthalene-4,9-dimethanol

Synonyms:
ICI 69653, NSC 234714

MF: C20H34O4
FW: 338.5
Purity: ≥98%
Supplied 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

(+) - Aphidicolin is supplied as a solid. A stock solution may be made by dissolving the (+) - aphidicolin in the solvent of choice. (+) - Aphidicolin is soluble in organic solvents such as DMSO and methanol, which should be purged with an inert gas. The solubility of (+) - aphidicolin in these solvents is approximately 50 and 10 mg/ml, respectively.

Description

(+) - Aphidicolin is a natural tetracyclic diterpene first isolated from the fungus C. aphidicola and shown to have antiviral activity against herpes simplex.1 In eukaryotic cells, it is a cell-permeable, reversible inhibitor of DNA replication, specifically blocking the activity of DNA polymerases α, δ, and ε when used at low micromolar levels.2-4 Aphidicolin can be used, at 3 μM, to arrest cells in G1/S phase or to increase gene amplification frequency.5,6

References