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.

WARRANTY AND LIMITATION OF REMEDY
Buyer agrees to purchase the material subject to Cayman's Terms and Conditions. Complete Terms and Conditions including Warranty and Limitation of Liability information can be found on our website.

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PRODUCT INFORMATION

Albofungin
Item No. 23142

CAS Registry No.: 37895-35-5
Formal Name: (1S,4R,8aR)-13-amino-3,4,8a,13-
tetrahydro-1,15,16-trihydroxy-4-methoxy-
12-methyl-1H-xantheno[4';3';2';4,5,
[1,3]benzodioxino[7,6-g]isoquinoline-
14,17(2H,9H)-dione
Synonyms: Antibiotic P42-1, Antibiotic P42-C
MF: C_{27}H_{24}N_{2}O_{9}
FW: 520.5
Purity: ≥95%
Supplied as: A solid
Storage: -20°C
Stability: ≥1 year

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

Laboratory Procedures

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

Description

Albofungin is a xanthone isolated from A. tumenacerans with diverse biological activities.1,2 It inhibits the growth of various Gram-positive bacteria (MICs = 0.005-7.5 μg/ml), fungi (MICs = 0.0075-1.0 μg/ml), and mycobacteria (MICs = 1.0-10.0 μg/ml) with minimal activity against Gram-negative bacteria (MICs = ≥ 50.0 μg/ml).2,3 At concentrations ranging from 0.005 to 0.01 μg/ml, albofungin is cytotoxic to HeLa cells.2 It also inhibits HIV reverse transcriptase with an IC_{50} value of 1 μM.4

References