PRODUCT INFORMATION



Rugulotrosin A

Item No. 28157

CAS Registry No.: 685135-81-3

Formal Name: (4R,4'R,4aR,4'aR,7R)-rel-

> 2,2',3,3',4,4',9,9'-octahydro-1,1',4,4',8,8'-hexahydroxy-6,6'dimethyl-9,9'-dioxo-[7,7'-bi-4aHxanthene]-4a,4'a-dicarboxylic acid

dimethyl ester

MF: $C_{32}H_{30}O_{14}$ FW: 638.6 **Purity:** ≥98% Supplied as: A solid Storage: -20°C Stability: ≥4 years

Item Origin: Fungus/Penicillium sp.

OH ÓН ÓН

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

Laboratory Procedures

Rugulotrosin A is supplied as a solid. A stock solution may be made by dissolving the rugulotrosin A in the solvent of choice. Rugulotrosin A is soluble in organic solvents such as ethanol, methanol, DMSO, and dimethyl formamide.

Rugulotrosin A is slightly soluble in aqueous solutions. To enhance aqueous solubility, dilute the organic solvent solution into aqueous buffers or isotonic saline. If performing biological experiments, ensure the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. We do not recommend storing the aqueous solution for more than one day.

Description

Rugulotrosin A is an antibiotic originally isolated from Penicillium.^{1,2} It is active against the Gram-positive bacteria E. faecalis, B. cereus, B. subtilis, and S. aureus with 99% lethal dose (LD₉₉) values of 1.6, 3.1, 5.5, and 200 μg/ml, respectively. Rugulotrosin A is inactive against Gram-negative bacteria. 1,2

References

- 1. Stewart, M., Capon, R.J., White, J.M., et al. Rugulotrosins A and B: Two new antibacterial metabolites from an Australian isolate of a Penicillium sp. J. Nat. Prod. 67(4), 728-730 (2004).
- Qin, T., Skraba-Joiner, S.L., Khalil, Z.G., et al. Atropselective syntheses of (-) and (+) rugulotrosin A utilizing point-to-axial chirality transfer. Nat. Chem. 7(3), 234-240 (2015).

WARNING
THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

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

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

Copyright Cayman Chemical Company, 08/16/2023

CAYMAN CHEMICAL

1180 EAST ELLSWORTH RD ANN ARBOR, MI 48108 · USA PHONE: [800] 364-9897

[734] 971-3335

FAX: [734] 971-3640 CUSTSERV@CAYMANCHEM.COM WWW.**CAYMANCHEM**.COM