PRODUCT INFORMATION



(-)-Rugulosin Item No. 25477

CAS Registry No.: 21884-45-7

Formal Name: [5aR-(5aR*,6S*,13aR*,14S*,17R*,18S*,19S*,20R*)]-

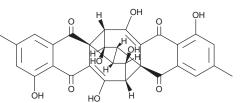
> 1,7,9,15,17,20-hexahydroxy-3,11-dimethyl-5H,6H-6,13a,5a,14-[1,2,3,4]butanetetraylcycloocta[1,2b:5,6-b']dinaphthalene-5,8,13,16(14H)-tetrone

MF: $C_{30}H_{22}O_{10}$ 542.5 FW: **Purity:** ≥98% Supplied as: A solid

Stability: ≥4 years Item Origin: Fungus/Penicillium sp.

-20°C

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



Laboratory Procedures

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

Description

Storage:

(-)-Rugulosin is a fungal metabolite that has been isolated from Penicillium species, including P. islandicum, which also produces the optical isomer and mycotoxin (+)-rugulosin (Item No. 23558).1 (-)-Rugulosin is 3-10-fold more cytotoxic to HeLa and L cells compared with (+)-rugulosin.² It is protective against influenza in mice when administered via inhalation but not when administered intraperitoneally with 38.3 and 5% survival rates, respectively.3

References

- 1. Singh, S.B., Jayasuriya, H., Dewey, R., et al. Isolation, structure, and HIV-1-integrase inhibitory activity of structurally diverse fungal metabolites. J. Ind. Microbiol. Biotechnol. 30(12), 721-731 (2003).
- Umeda, M., Saito, M., and Shibata, S. Comparison of cytotoxic effects of various anthraquinonoids on cultured mammalian cells. Jpn. J. Exp. Med. 44(3), 249-255 (1974).
- Nakamura, S., Nii, F., Inoue, S., et al. Antiinfluenzal effect of rugulosin. Jpn. J. Microbiol. 18(1), 1-7 (1974).

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.

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