PRODUCT INFORMATION



Tropodithietic Acid

Item No. 23244

CAS Registry No.: 750590-18-2

3-oxo-8,9-dithiabicyclo[5.2.0]nona-Formal Name:

1,4,6-triene-2-carboxylic acid

Synonym: MF: $C_8H_4O_3S_2$ FW: 212.2 **Purity:** ≥98% Supplied as: A solid Storage: -20°C Stability: ≥4 years

Special Conditions: Protect from moisture and direct light Bacterium/Roseobacter gallaeciensis Item Origin:

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



Tropodithietic acid (TDA) is supplied as a solid. A stock solution may be made by dissolving the TDA in the solvent of choice, which should be purged with an inert gas. TDA is soluble in the organic solvent DMSO.

Description

TDA is a broad-spectrum antibiotic produced by the marine bacterium R. gallaeciensis. 1 It is active against a variety of Gram-negative α-proteobacteria, γ-proteobacteria, and flavobacteria as well as Gram-positive actinobacteria strains in a disc assay. TDA also inhibits the growth of S. aureus and V. anguillarum with MIC values of 39 and 19 μM, respectively.²

References

- 1. Brinkhoff, T., Bach, G., Heidorn, T., et al. Antibiotic production by a Roseobacter clade-affiliated species from the German Wadden Sea and its antagonistic effects on indigenous isolates. Appl. Environ. Microbiol. 70(4), 2560-2565 (2004).
- 2. Rabe, P., Klapschinski, T.A., Brock, N.L., et al. Synthesis and bioactivity of analogues of the marine antibiotic tropodithietic acid. Beilstein J. Org. Chem. 10, 1796-1801 (2014).

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

Suyer 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.

Copyright Cayman Chemical Company, 10/13/2022

.OH

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