Terrecyclic Acid
PRODUCT DATA SHEET
issue date 01/06/2020

Product Name: Terrecyclic Acid
Product Number: T082
CAS Number: 83058-94-0
Molecular Formula: C_{15}H_{20}O_{3}
Molecular Weight: 248.3
Appearance: Light tan residue
Storage Conditions: -20°C

Description:
Terrecyclic acid is a tricyclic sesquiterpene antibiotic produced by *Aspergillus terreus*, first reported by researchers at the Universities of Osaka and Tokyo in 1982. Terrecyclic acid A had a wide antimicrobial spectrum of rather weak activities against gram-positive bacteria, yeasts and fungi, and shows antitumor activity against lymphocytic leukemia P388.

Terrecyclic acid induces the heat shock protein response and affects oxidative and inflammatory cellular stress response pathways in tumor cells that promote survival. Terrecyclic Acid A is shown to increase reactive oxygen species (ROS) in 3LL cells, as well as, inhibit cytokine-induced NF-kappaB transcriptional activity.

Terrecyclic acid is soluble in ethanol, methanol, DMF and DMSO.

Mechanism of Action:
No studies of the mode of action of terrecyclic acid have been published.

Spectrum:
Terrecyclic acid A had a wide antimicrobial spectrum of rather weak activities against gram-positive bacteria, yeasts and fungi, and shows antitumor activity against lymphocytic leukemia P388.

Cancer Applications
Terrecyclic acid induces the heat shock protein response and affects oxidative and inflammatory cellular stress response pathways in tumor cells that promote survival. Terrecyclic Acid A is shown to increase reactive oxygen species (ROS) in 3LL cells, as well as, inhibit cytokine-induced NF-kappaB transcriptional activity.

References:


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