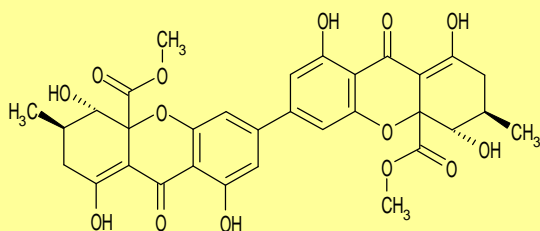


Secalonic Acid A

Cat.# BLK0660

Structure



Secalonic Acid A

Origin:

CAS Registry Number: 35287-72-0

CA Index Name: Ergochrome
(3R,3'R,4'S,4'aS)-
2,2',3,3',4,4',9,9'-Octahydro-1,1',4
a,4',8,8'-hexahydroxy-3β,3'-
dimethyl-9,9'-dioxo-7,7'-bi[4aH-
xanthene]-4aa,4a'-dicarboxylic
Acid Dimethyl Ester

Appearance: needles

Molecular Formula/ Weight: C₃₂H₃₀O₁₄=638.58

Melting Point: **Purity:** 95>% by HPLC

Solubility: Sol. MeOH, Chloroform, Acetone,
EtOAc, DMSO
Inso. Water

pKa: **log P:**

Background Information:

Secalonic acids with antitumor activity were isolated from the culture broth of *Pyrenochaeta terrestris* and *Aspergillus aculeatus*¹⁾. Secalonic Acid D showed potent cytotoxicity to leukemia cells. Secalonic acid D induced apoptosis in leukemia cells. In addition, secalonic acid D led to cell cycle arrest of G1 phase related to downregulation of c-Myc²⁾.

Handling and Storage:

Store at -20 .

References:

1. I. Kurobane, et al. J Antibiot **32**, 1256-1266 (1979).
2. J. Y. Zhang, et al. Cell Cycle **8**, 2444-2450 (2009).

Manufactured with Cortesy strain from The Kitasato Institute.

(ID#:)