
Product Data Sheet

Product Name: Cardanol monoene

Cat. No.: GC18449

Chemical Properties

Cas. No. 501-26-8

Chemical Name 3-8Z-pentadecen-1-yl-phenol

SMILES OC1=CC=CC(CCCCCC/C=C\CCCCC)=C1Formula $C_{21}H_{34}O$

M.Wt 302.5

Solubility DMF: 20 mg/ml, DMSO: 15 mg/ml, Ethanol: 22 mg/ml, Ethanol: PBS (pH 7.2) (1:1): 0.5 mg/ml

Store
Storage at -
20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice. All other available size: ship with RT, or blue ice upon request.

Structure **Background**

Cardanol monoene is a phenol found in cashew nut shell liquid that reversibly inhibits tyrosinase with an IC₅₀ value of 56 μM in vitro. It halts the cell cycle at the S phase and inhibits proliferation dose- and time-dependently in M14 melanoma cells (IC₅₀s = 23.15 and 12.30 μM after 24 and 48 hours of treatment, respectively). Cardanol monoene also induces apoptosis via the intrinsic pathway following the accumulation of reactive oxygen species (ROS). A mixture of cardanol mono-, di-, and triene is used to synthesize cardanol-metal complexes that inhibit uropathogenic E. coli biofilm formation.

Caution: Product has not been fully validated for medical applications. For research use only.

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