

Product Data Sheet

Product Name: COTC
Cat. No.: GC52018

Chemical Properties

Cas. No. 57449-30-6

SMILES CC=CC(OCC1=C[C@@H](O)[C@@H](O)[C@@H](O)C1=O)=O

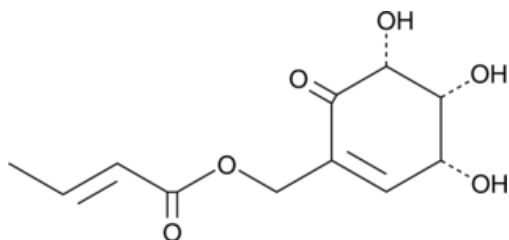
Formula C₁₁H₁₄O₆ M.Wt 242.2

Solubility DMSO: soluble, Methanol: Storage -20°C
soluble, Water: soluble

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

COTC is a bacterial metabolite that has been found in *S. griseosporus* and has anticancer activity.¹ It inhibits glyoxalase in the presence of glutathione (GSH) in a concentration- and time-dependent manner. COTC inhibits the proliferation of HeLa cells (IC₅₀ = 18 µg/ml), as well as reduces tumor growth and improves survival in an Ehrlich murine spontaneous adenocarcinoma model.

1. Takeuchi, T., Chimura, H., Hamada, M., et al. A glyoxalase I inhibitor of a new structural type produced by *Streptomyces*. *J. Antibiot. (Tokyo)* 28(1):737-742 (1975)

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

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