

Product Data Sheet

Product Name: Elemicin
Cat. No.: GC38436

Chemical Properties

Cas. No. 487-11-6

SMILES C=CCC1=CC(OC)=C(OC)C(OC)=C1

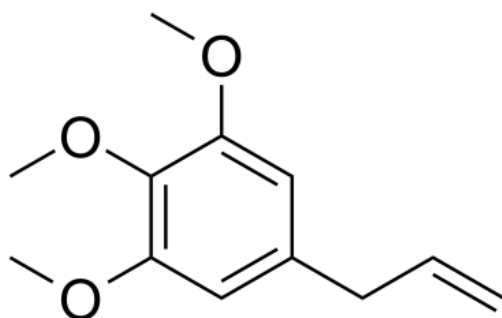
Formula $C_{12}H_{16}O_3$ M.Wt 208.25

Solubility DMSO: ≥ 250 mg/mL (1200.48 mM) Storage Store at 2-8°C, protect from light

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

Elemicin is a alkenylbenzene widely distributed in many herbs and spices. Elemicin inhibits Stearoyl-CoA Desaturase 1 (SCD1) by metabolic activation. Elemicin is one of the main components in aromatic food and has antimicrobial, antioxidant, and antiviral activities. Elemicin possesses genotoxicity and carcinogenicity[1].

[1]. Yang XN, et al. Metabolic Activation of Elemicin Leads to the Inhibition of Stearoyl-CoA Desaturase 1. Chem Res Toxicol. 2019 Sep 10.

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

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