

Product Data Sheet

Product Name: Colneleic Acid

Cat. No.: GC91372

Chemical Properties

Cas. No. 52761-34-9

Formula $C_{18}H_{30}O_3$

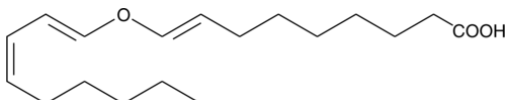
M.Wt 294.4

Solubility Ethanol: soluble

Storage Store 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

Colneleic acid is a divinyl ether oxylipin and an active metabolite of linoleic acid that has been found in potatoes.^{1,2,3,4} It is formed from linoleic acid by 9-lipoxygenase (9-LO) via a (±)9-HpODE intermediate and divinyl ether synthase.^{1,2} Colneleic acid decreases *P. infestans* hyphae growth when used at concentrations of 15, 75, and 150 µM and reduces *P. infestans* cystospore germination in a concentration-dependent manner.³ The levels of colneleic acid are increased in potato leaves following *P. infestans* infection and in rice seedlings following brown planthopper feeding.^{3,4}

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

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