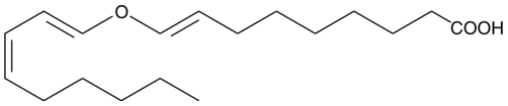
Product Data Sheet

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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