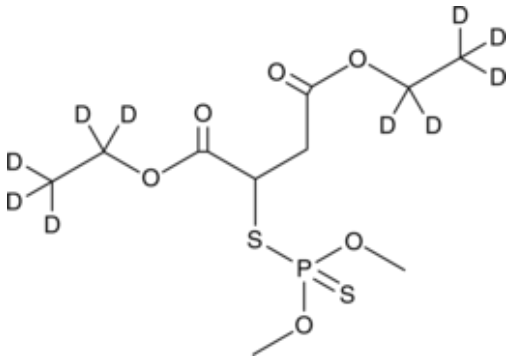
Product Data Sheet

Product Name: Malathion-d10
Cat. No.: GC91181

Chemical Properties

Cas. No.	347841-48-9		
Formula	$C_{10}H_9D_{10}O_6PS_2$	M.Wt	340.4
Solubility	Chloroform: Slightly soluble,Methanol: Slightly 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

Malathion-d_{10} is intended for use as an internal standard for the quantification of malathion by GC- or LC-MS. Malathion is an organophosphate insecticide that inhibits acetylcholinesterase (AChE; IC_{50}s = 370 and 160 µM for free and immobilized AChE, respectively, from bovine erythrocytes).[1] It is ovicidal and adulticidal to laboratory colonies of body lice when used at concentrations of 0.001 and 0.05%, respectively.[2] It is toxic to rats (LD_{50} = 750 mg/kg) and teratogenic to zebrafish when used at concentrations ranging from 2 to 3 mg/L.[3,4] Formulations containing malathion have been used in the treatment of lice.

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