

Product Data Sheet

Product Name: Oxamyl-d6

Cat. No.: GC91090

Chemical Properties

Cas. No. 2470229-60-6

Formula C₇H₇D₆N₃O₃S

M.Wt 225.3

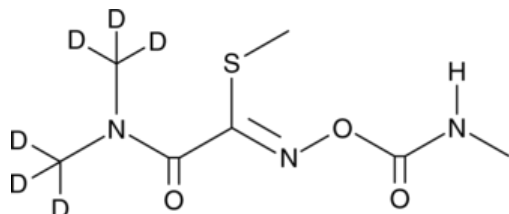
Solubility Chloroform: Slightly soluble, Methanol: Slightly soluble

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

Oxamyl-d₆ is intended for use as an internal standard for the quantification of oxamyl by GC- or LC-MS. Oxamyl is a carbamate pesticide and an inhibitor of acetylcholinesterase (AChE; IC₅₀ = 1.67 μM for the *C. gigas* enzyme).¹ It is nematocidal, decreasing the number of *P. penetrans* and *M. hapla* per gram of alfalfa (*M. sativa*) root when applied to seeds at a concentration of 50 mg/ml.² Oxamyl (50 and 100 μg/ml) is also toxic to citrus nematode (*T. semipenetrans*) larvae.³ *In vivo*, oxamyl (2.1 and 3.5 mg/kg) inhibits plasma and brain AChE, as well as liver glucose-6-phosphatase and mitochondrial complex II, also known as succinate dehydrogenase, and reduces body weight gain in rats.⁴ Formulations containing oxamyl have been used to control nematode infestation of field crops.

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

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