

Product Data Sheet

Product Name: Thiacloprid-d₄

Cat. No.: GC91184

Chemical Properties

Cas. No. 1793071-39-2

Formula C₁₀H₅ClD₄N₄S

M.Wt 256.7

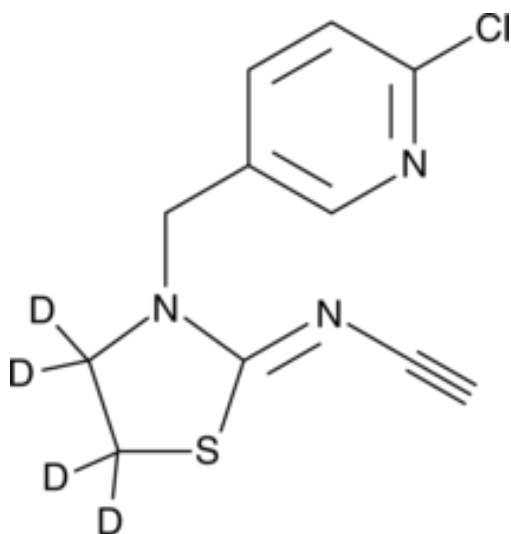
Solubility Chloroform: slightly soluble, Dichloromethane: slightly soluble, Methanol: slightly soluble upon heating

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

Thiacloprid-d₄ is intended for use as an internal standard for the quantification of thiacloprid by GC- or LC-MS. Thiacloprid is a neonicotinoid insecticide.¹ It is an antagonist of nicotinic acetylcholine receptors (nAChRs; IC₅₀ = 2.7 nM for the *D. melanogaster* enzyme). Thiacloprid is lethal to *D. melanogaster* (LD₅₀ = 0.03 mg/kg). It eliminates aphids on apple tree leaves in field studies when

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

Product Data Sheet

applied at a concentration of 0.0072% AI/L.² Thiachloprid is toxic to mice (LD₅₀ = 28 mg/kg).¹

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA