

Product Data Sheet

Product Name: Bifenazate-d5

Cat. No.: GC91196

Chemical Properties

Cas. No.

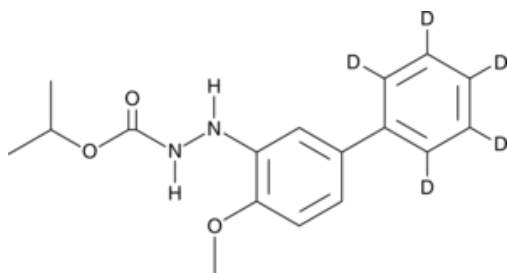
Formula $C_{17}H_{15}D_5N_2O_3$ M.Wt 305.4

Solubility Acetonitrile: slightly soluble, Chloroform: 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

Bifenazate-d₅ is intended for use as an internal standard for the quantification of bifenazate by GC- or LC-MS. Bifenazate is a carbamate acaricide that provides 100% control of mites when used at a concentration of 25 ppm.¹ It acts as a positive allosteric modulator of GABA receptors containing the resistance to dieldrin (Rdl) subunit homolog TuGABAR in *T. urticae* (spider mites), shifting the GABA-induced response from an EC₅₀ value of 24.8 to 4.83 μM when used at a concentration of 30 μM.² Formulations containing bifenazate have been used for the control of mites and for pesticide detection.

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

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