Product Data Sheet

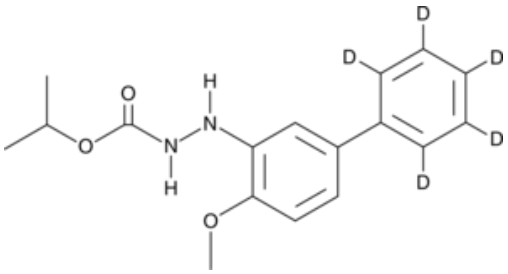
Product Name: Bifenazate-d5
Cat. No.: GC91196

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-d_5 is intended for use as an internal standard for the quantification of bifenazate by GC- or LC-MS. Bifenazate is a carbazate 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 EC_{50} 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.
Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com
Address: 10292 Central Ave. #205, Montclair, CA, USA