

Product Data Sheet

Product Name: Triadimenol-d4

Cat. No.: GC71673

Chemical Properties

Cas. No. 2121989-56-6

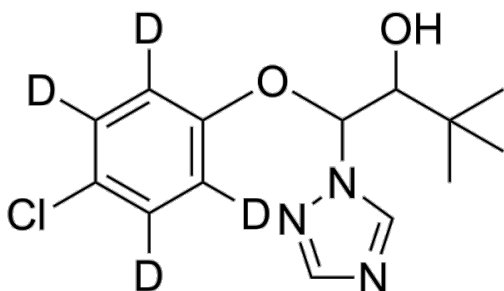
Formula $C_{14}H_{14}D_4ClN_3O_2$ M.Wt 299.79

Solubility Storage -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

Triadimenol-d4 is the deuterium labeled Triadimenol[1]. Triadimenol is a triazole fungicide and has been widely used in agriculture. Triadimenol has certain toxicity to animals[2].

Stable heavy isotopes of hydrogen, carbon, and other elements have been incorporated into drug molecules, largely as tracers for quantitation during the drug development process. Deuteration has gained attention because of its potential to affect the pharmacokinetic and metabolic profiles of drugs[1].

References:

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

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- [1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother*. 2019 Feb;53(2):211-216.
- [2]. Menegola E, et al. In vitro teratogenic potential of two antifungal triazoles: triadimefon and triadimenol. *In Vitro Cell Dev Biol Anim*. 2000 Feb;36(2):88-95.

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