
Product Data Sheet

Product Name: Leucomalachite green-d5

Cat. No.: GC63698

Chemical Properties

Cas. No. 947601-82-3

Formula $C_{23}H_{21}D_5N_2$ M.Wt 335.5

Solubility 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**

Leucomalachite green-d5 is the deuterium labeled Leucomalachite green. Leucomalachite green is a triphenylmethane dye used to detect blood. Leucomalachite green, a major metabolite of malachite green, is a potential carcinogen, teratogen and mutagen[1][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].

[1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother.* 2019;53(2):211-216. [2]. Ya-hui Li, et al. Development of a group selective molecularly imprinted polymers based solid phase extraction of malachite green from fish water and fish feed samples. *Anal Chim Acta.* 2008 Aug 29;624(2):317-25.; Kohji Ishihama, et al. Floating aerial blood mists in the operating room. *J Hazard Mater.* 2010 Sep 15;181(1-3):1179-81.

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

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