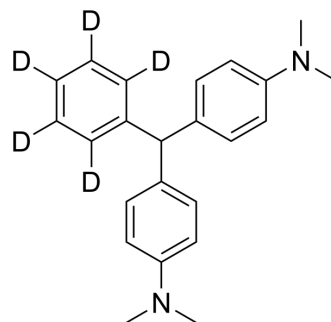


Leucomalachite green-d5

Cat. No.:	HY-D0300S
CAS No.:	947601-82-3
Molecular Formula:	C ₂₃ H ₂₁ D ₅ N ₂
Molecular Weight:	335.5
Target:	Fluorescent Dye; Isotope-Labeled Compounds
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	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]} .
In Vitro	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] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [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.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA