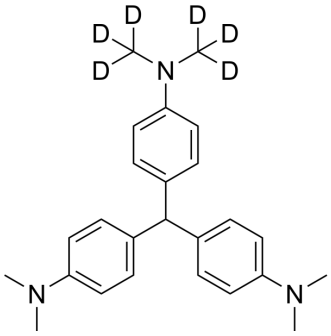
Leucocrystal violet-d_6

Cat. No.:	HY-D0233S
CAS No.:	1173023-92-1
Molecular Formula:	$C_{25}H_{25}D_6N_3$
Molecular Weight:	379.57
Target:	Isotope-Labeled Compounds
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Leucocrystal violet-d_6 is the deuterium labeled Leucocrystal violet[1]. Leucocrystal violet is a triphenylmethane dye which can be used to detect antimony in environmental and biological samples using spectrophotometric techniques[2][3].
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 Feb;53(2):211-216.

[2]. Wu J, et al. Biodegradation of leuco derivatives of triphenylmethane dyes by Sphingomonas sp. CM9. Biodegradation. 2011 Sep;22(5):897-904.

[3]. Tiwari KK, et al. A simple and sensitive analytical method for the determination of antimony in environmental and biological samples. Anal Sci. 2006 Feb22(2):259-62.

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