Leucocrystal violet

Cat. No.: HY-D0233

CAS No.: 603-48-5

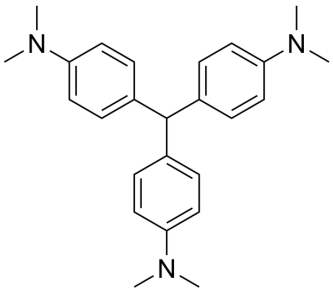
Molecular Formula: $C_{25}H_{31}N_3$

Molecular Weight: 374

Target: Fluorescent Dye

Pathway: Others

Storage: 4°C, protect from light
* In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 12.5 mg/mL (33.42 mM; Need ultrasonic)
H_2O : < 0.1 mg/mL (insoluble)

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	2.6738 mL	13.3690 mL	26.7380 mL
5 mM	0.5348 mL	2.6738 mL	5.3476 mL
10 mM	0.2674 mL	1.3369 mL	2.6738 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: 1.25 mg/mL (3.34 mM); Suspended solution; Need ultrasonic

BIOLOGICAL ACTIVITY

Description

Leucocrystal violet is a triphenylmethane dye which can be used to detect antimony in environmental and biological samples using spectrophotometric techniques.

REFERENCES

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

[2]. Tiwari KK, et al. A simple and sensitive analytical method for the determination of antimony in environmental and biological samples. Anal Sci. 2006 Feb;22(2):259-62.

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

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