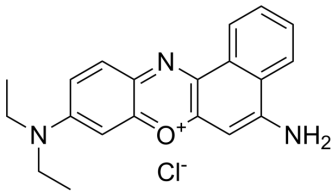
Nile blue chloride

Cat. No.:	HY-W110898
CAS No.:	2381-85-3
Molecular Formula:	$C_{20}H_{20}ClN_3O$
Molecular Weight:	353.85
Target:	Fluorescent Dye
Pathway:	Others
Storage:	4°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



BIOLOGICAL ACTIVITY

Description	Nile blue chloride is a highly fluorescent and photostable organic dye. Nile blue chloride and fluorescein isothiocyanate (FITC) can be used to construct a ratiometric pH sensitive probe for tracking the pH of the extracellular fluid between cancer cells in realtime. Nile Blue chloride has the potential for the research of nonlinear optics[1][2].

REFERENCES

[1]. QM Ali, et al. Z-scan determination of the third-order optical nonlinearity of organic dye nile blue chloride. Modern Physics Letters B. 2006, 623-632.

[2]. Martinez V, et al. Nile Red and Nile Blue: Applications and Syntheses of Structural Analogues. Chemistry. 2016 Sep 19;22(39):13764-13782.

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