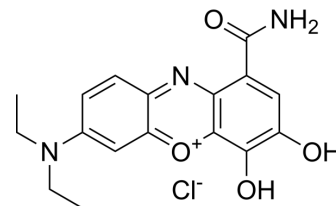


Celestine Blue

Cat. No.:	HY-D0948
CAS No.:	1562-90-9
Molecular Formula:	C ₁₇ H ₁₈ ClN ₃ O ₄
Molecular Weight:	363.8
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

Celestine Blue is an electroactive indicator in DNA biosensors. Celestine Blue is strongly adsorbed on the spinel phases and CNT (carbon nanotubes), facilitates dispersion, acts as a capping agent and allows for the fabrication of spinel decorated CNT. Celestine Blue is an efficient charge transfer mediator, which allows for significant improvement of capacitive behavior. TiO₂ nanoparticles doped with Celestine Blue can be used as a label in a sandwich immunoassay for the hepatitis C virus (HCV) core antigen^{[1][2][3]}.

REFERENCES

- [1]. Mohamed Nawwar, et al. Fe₃O₄ spinel-Mn₃O₄ spinel supercapacitor prepared using Celestine blue as a dispersant, capping agent and charge transfer mediator. *Ceramics International*. 1 August 2020, 46(11):18851-18858.
- [2]. Ezat Hamidi-Asl, et al. Celestine blue as a new indicator in electrochemical DNA biosensors. *Science China Chemistry*, 2015, 59(1):1-7.
- [3]. Valipour, A., et al. TiO₂ nanoparticles doped with Celestine Blue as a label in a sandwich immunoassay for the hepatitis C virus core antigen using a screen printed electrode. *Microchim 2017 Acta* 184, 2015-2022.

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

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