



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!  
See the following pages for more information!



### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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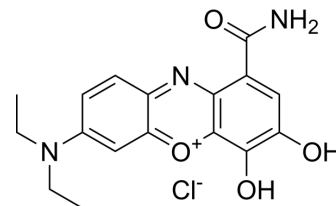
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## Celestine Blue

Cat. No.:	HY-D0948
CAS No.:	1562-90-9
Molecular Formula:	C <sub>17</sub> H <sub>18</sub> ClN <sub>3</sub> O <sub>4</sub>
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. TiO<sub>2</sub> nanoparticles doped with Celestine Blue can be used as a label in a sandwich immunoassay for the hepatitis C virus (HCV) core antigen<sup>[1][2][3]</sup>.

### REFERENCES

- [1]. Mohamed Nawwar, et al. Fe<sub>3</sub>O<sub>4</sub> spinel-Mn<sub>3</sub>O<sub>4</sub> 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. TiO<sub>2</sub> 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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