



# 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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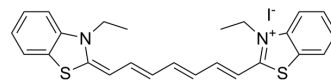
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## DTTCI

|                           |  |
|---------------------------|--|
| <b>Cat. No.:</b>          | HY-D1180   |
| <b>CAS No.:</b>           | 3071-70-3  |
| <b>Molecular Formula:</b> | C <sub>25</sub> H <sub>25</sub> IN <sub>2</sub> S <sub>2</sub>   |
| <b>Molecular Weight:</b>  | 544.51   |
| <b>Target:</b>            | Fluorescent Dye  |
| <b>Pathway:</b>           | Others   |
| <b>Storage:</b>           | -20°C, sealed storage, away from moisture and light<br>* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light) |



## SOLVENT & SOLUBILITY

### In Vitro

DMSO : 20 mg/mL (36.73 mM); ultrasonic and warming and heat to 60°C)

| Concentration | Mass      |           |            |
|---------------|-----------|-----------|------------|
|               | 1 mg      | 5 mg      | 10 mg      |
| 1 mM          | 1.8365 mL | 9.1826 mL | 18.3651 mL |
| 5 mM          | 0.3673 mL | 1.8365 mL | 3.6730 mL  |
| 10 mM         | 0.1837 mL | 0.9183 mL | 1.8365 mL  |

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

## BIOLOGICAL ACTIVITY

### Description

DTTCI (3,3'-Diethylthiatricarbocyanine iodide) is an infrared photographic sensitizing dye. DTTCI is a highly sensitive chiroptical reporter of DNA helicity and sequence<sup>[1][2]</sup>.

## REFERENCES

- [1]. Choi JK, et al. 3,3'-diethylthiatricarbocyanine iodide: a highly sensitive chiroptical reporter of DNA helicity and sequence. *Int J Mol Sci.* 2011;12(11):8052-62.
- [2]. J. A. Potenza, et al. Crystal and molecular structure of 3,3'-diethylthiatricarbocyanine iodide, an infrared photographic sensitizing dye. *Acta Cryst.* (1978). B34, 193-199.

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

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