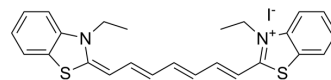


## DTTCI

<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 * 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.**

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA