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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

PRODUCT INFORMATION

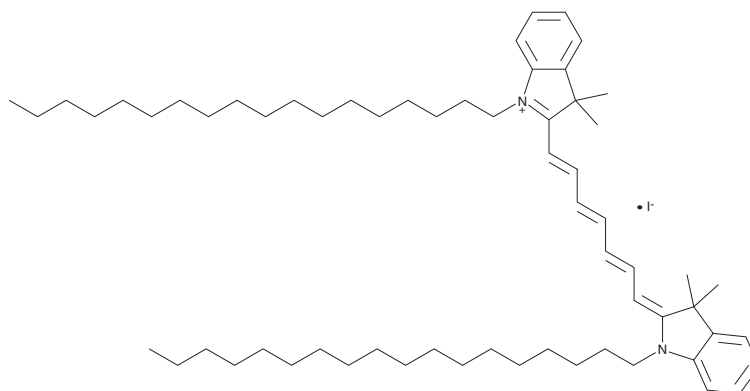


1,1-Dioctadecyl-3,3,3,3-tetramethylindotricarbocyanine (iodide)

Item No. 34954

CAS Registry No.: 100068-60-8
Formal Name: 2-[7-(1,3-dihydro-3,3-dimethyl-1-octadecyl-2H-indol-2-ylidene)-1,3,5-heptatrien-1-yl]-3,3-dimethyl-1-octadecyl-3H-indolium, monoiodide

Synonym: DiR
MF: C₆₃H₁₀₁N₂ • I
FW: 1,013.4
Purity: ≥98%
UV/Vis.: λ_{max}: 748 nm
Ex./Em. Max: 750/780 nm
Supplied as: A solid
Storage: -20°C
Stability: ≥4 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

1,1-Dioctadecyl-3,3,3,3-tetramethylindotricarbocyanine (DiR) (iodide) is supplied as a solid. A stock solution may be made by dissolving the DiR (iodide) in the solvent of choice, which should be purged with an inert gas. DiR (iodide) is soluble in methanol, dimethyl formamide, and dichloromethane.

Description

DiR is a lipophilic near-infrared fluorescent dye.¹ It displays excitation/emission maxima of 750/780 nm, respectively. DiR has been incorporated into PEGylated nanoparticles for use in antitumor photothermal therapy in mice.²

References

1. Wagh, A., Qian, S.Y., and Law, B. Development of biocompatible polymeric nanoparticles for in vivo NIR and FRET imaging. *Bioconjug. Chem.* **23**(5), 981-992 (2012).
2. Zhang, X., Sun, B., Zuo, S., et al. Self-assembly of a pure photosensitizer as a versatile theragnostic nanoplatform for imaging-guided antitumor photothermal therapy. *ACS Appl. Mater. Interfaces* **10**(36), 30155-30162 (2018).

WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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CAYMAN CHEMICAL

1180 EAST ELLSWORTH RD
ANN ARBOR, MI 48108 · USA

PHONE: [800] 364-9897

[734] 971-3335

FAX: [734] 971-3640

CUSTSERV@CAYMANCHEM.COM
WWW.CAYMANCHEM.COM