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Produktinformation



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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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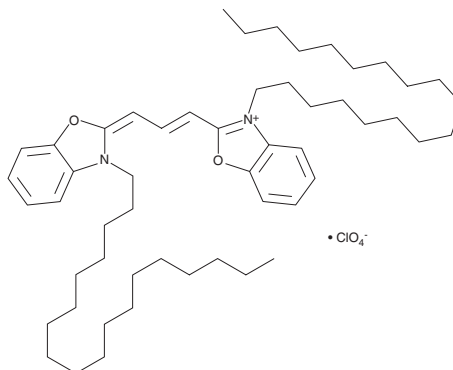


PRODUCT INFORMATION

3,3'-Diocadecyloxacarbocyanine (perchlorate)

Item No. 27876

CAS Registry No.: 34215-57-1
Formal Name: 3-octadecyl-2-[3-(3-octadecyl-2(3H)-benzoxazolyliidene)-1-propen-1-yl]-benzoxazolium, monoperchlorate
Synonyms: DiOC₁₈(3), NK 3045
MF: C₅₃H₈₅N₂O₂ • ClO₄
FW: 881.7
Purity: ≥95%
Ex./Em. Max: 484/501 nm
Supplied as: A solid
Storage: -20°C
Stability: ≥2 years



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

Description

3,3'-Diocadecyloxacarbocyanine is a lipophilic fluorescent dye. It exhibits polarity-dependent fluorescence that is enhanced when incorporated into membranes or lipophilic molecules. Upon membrane incorporation, 3,3'-diocadecyloxacarbocyanine rapidly diffuses to stain the entire cell membrane.¹ It has been used in the clonal analysis of *S. purpuratus* embryos. 3,3'-Diocadecyloxacarbocyanine displays excitation/emission maxima of 484/501 nm, respectively, and can be used for live cell applications.

Assay Protocol

1. **Prepare 3,3'-diocadecyloxacarbocyanine solution**
 - a. Reconstitute 3,3'-diocadecyloxacarbocyanine with DMSO or ethanol to a final concentration of 1-5 mM.
 - b. Store 3,3'-diocadecyloxacarbocyanine stock solution at -20°C, avoiding repeated freeze/thaw cycles.
2. **Prepare and stain the cells**
 - a. Adherent Cells
 - i. Dilute 3,3'-diocadecyloxacarbocyanine stock solution into serum-free cell culture media, PBS, or Hanks balanced salt solution (HBSS) to a final concentration of 1-5 μM to prepare 3,3'-diocadecyloxacarbocyanine working solution.
 - ii. Remove culture medium from adherent cells and replace with 3, 3'-diocadecyloxacarbocyanine working solution.
 - iii. Incubate cells at 37°C, 5% CO₂ for 2-20 minutes.
 - iv. Centrifuge the labeled suspended cells at 1,000 - 5,000 rpm for 5 minutes.
 - v. Aspirate 3,3'-diocadecyloxacarbocyanine working solution and wash cells three times with growth medium.
 - iv. Observe cells using fluorescence technique of choice.

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.

WARRANTY AND LIMITATION OF REMEDY
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PRODUCT INFORMATION



b. Suspended cells

- i. Dilute 3,3'-dioctadecyloxacarbocyanine stock solution into serum-free cell culture media, PBS, or Hanks balanced salt solution (HBSS) to a final concentration of 1-5 μM to prepare 3,3'-dioctadecyloxacarbocyanine working solution.
- ii. Suspend cells at a density of 1×10^6 cells/ml in 3,3'-dioctadecyloxacarbocyanine working solution.
- iii. Incubate cells at 37°C, 5% CO_2 for 2-20 minutes.
- iv. Centrifuge the labeled suspended cells at 1,000 - 5,000 rpm for 5 minutes.
- v. Aspirate 3,3'-dioctadecyloxacarbocyanine working solution and wash cells three times with growth medium.
- iv. Observe cells using fluorescence technique of choice.

Reference

1. Volnoukhin, M. and Brandhorst, B.P. Multispectral labeling of embryonic cells with lipophilic carbocyanine dyes. *Mol. Reprod. Dev.* **82(7-8)**, 619-624 (2015).

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