

**Product Name:** DiD perchlorate

**Catalog No.:** 5702

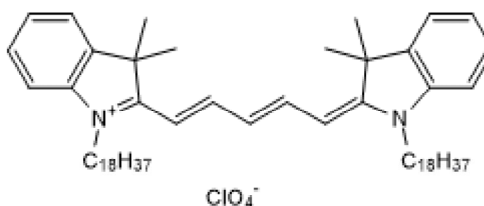
**Batch No.:** 6

CAS Number: 127274-91-3

IUPAC Name: 2-[5-(1,3-Dihydro-3,3-dimethyl-1-octadecyl-2*H*-indol-2-ylidene)-1,3-pentadien-1-yl]-3,3-dimethyl-1-octadecyl-3*H*-indolium perchlorate

## 1. PHYSICAL AND CHEMICAL PROPERTIES

<b>Batch Molecular Formula:</b>	C <sub>61</sub> H <sub>99</sub> ClN <sub>2</sub> O <sub>4</sub>
<b>Batch Molecular Weight:</b>	959.9
<b>Physical Appearance:</b>	Dark blue solid
<b>Solubility:</b>	Soluble in DMSO
<b>Storage:</b>	Store at -20°C
<b>Batch Molecular Structure:</b>	



## 2. ANALYTICAL DATA

<b>HPLC:</b>	Shows 98.9% purity at 642 nm
<b>λ<sub>ex</sub>:</b>	646 nm
<b>λ<sub>em</sub>:</b>	663 nm

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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**Description:**

Key information: DiD perchlorate is a lipophilic red fluorescent probe. Used for: labeling membranes and other hydrophobic structures. Suitable to label organelles, liposomes, viruses, lipoproteins and hematopoietic stem cells (HSCs). Suitable for live cell imaging. Application: fluorescent microscopy, flow cytometry. Properties and Photophysical Data: DiD perchlorate is a Cy5 dye used as a lipophilic fluorescent reagent. Suitable for multicolor imaging. Excitation and emission maxima ( $\lambda$ ) are 644 nm and 665 nm, respectively.

**Physical and Chemical Properties:**

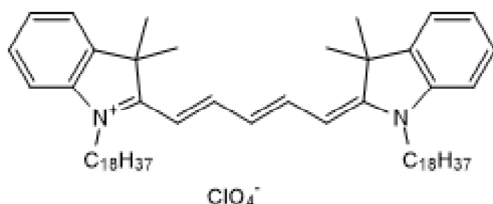
Batch Molecular Formula: C<sub>61</sub>H<sub>99</sub>ClN<sub>2</sub>O<sub>4</sub>

Batch Molecular Weight: 959.9

Physical Appearance: Dark blue solid

**Minimum Purity:** ≥95%

**Batch Molecular Structure:**



**Storage:** Store at -20°C

CAUTION - This product is light sensitive and we recommend that the solid material and any solutions obtained are protected from exposure to light.

**Solubility & Usage Info:**

Soluble in DMSO

**Stability and Solubility Advice:**

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. \*Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

**SOLIDS:** Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

**SOLUTIONS:** We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

**References:**

**Khorshed et al** (2015) Automated identification and localization of hematopoietic stem cells in 3D intravital microscopy data. *Stem Cell Reports* **5** 139. PMID: 26120058.

**Lo Celso et al** (2009) Live-animal tracking of individual haematopoietic stem/progenitor cells in their niche. *Nature* **457** 92. PMID: 19052546.

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