

Product Name: DiD perchlorate

Catalog No.: 5702

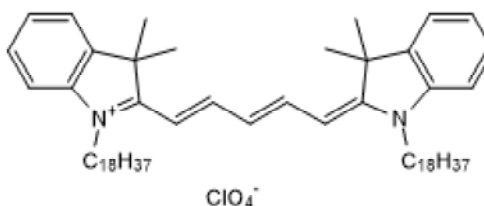
Batch No.: 4

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

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



2. ANALYTICAL DATA

HPLC:	Shows 99.0% purity
UV Spectrum:	Consistent with structure
λ_{ex}:	645 nm
λ_{em}:	663 nm

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

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Description:

DiD perchlorate is a lipophilic fluorescent reagent; labels membranes and other hydrophobic structures. Shown to stain HSCs. Excitation/emission λ 644/665 nm.

Physical and Chemical Properties:

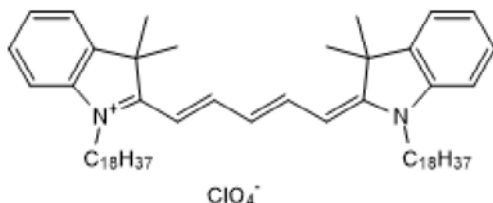
Batch Molecular Formula: C₆₁H₉₉ClN₂O₄

Batch Molecular Weight: 959.9

Physical Appearance: Dark blue solid

Minimum Purity: \geq 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. Our standard recommendations are:

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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