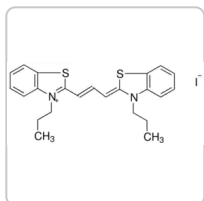


Saisir le nom du produit, le numéro de lot, etc.



Toutes les
photos (2)

Documents

↓ FDS

Q COO/COA

Plus de
documents »

318434 ▶ **Sigma-Aldrich.**

3,3'-Dipropylthiacarbocyanine iodide

★★★★★ (0)

98%

Synonyme(s):

3-Propyl-2-[3-[3-propyl-2(3*H*)benzothiazolylidene]-1-propenyl]benzothiazolium iodide, DiSC₃(3)

Empirical Formula (Hill Notation):

C₂₃H₂₅IN₂S₂

Numéro CAS: **53336-12-2**

Poids moléculaire: 520.49

Beilstein: 3842440

Numéro MDL: **MFCD00013340**

ID de substance PubChem: **329753928**

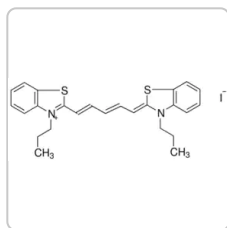
NACRES: NA.47

Référence	Conditionnement	Disponibilité	Prix	Quantité
318434-250MG	250 MG	Only 3 left in stock (more on the way)	Détails... 133,00 €	- + i

[Demander une commande en gros](#)

Ajouter au panier

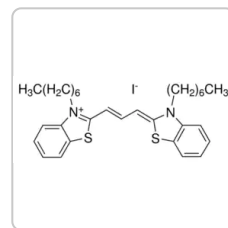
PRODUITS RECOMMANDÉS



Sigma-Aldrich

43608

3,3'-Dipropylthiadicarbocyanine iodide
suitable for fluorescence, $\geq 98.0\%$ (TLC)

[Consulter le prix et la disponibilité](#)

Sigma-Aldrich

37150

3,3'-Diheptylthiadicarbocyanine iodide
for fluorescence

[Consulter le prix et la disponibilité](#)

PROPRIÉTÉS

Essai/Dosage	98%
Forme	crystalline powder
Pf	288 °C (dec.) (lit.)
Solubilité	chloroform/methanol: 10 mg/mL, clear
λ_{max}	559 nm
ϵ (extinction coefficient)	163120 at 599 nm in methanol at 0.00463 g/L 17425 at 298 nm in methanol at 0.00463 g/L 40246 at 220 nm in methanol at 0.00463 g/L
Fluorescence	λ_{ex} 559 nm; λ_{em} 575 nm in methanol

application(s)	diagnostic assay manufacturing hematology histology
Temp. de stockage	room temp
SMILES string	[I-].CCCN1C(\Sc2cccc12)=C\C=C\c3sc4cccc4[n+]3CCC
InChI	1S/C23H25N2S2.HI/c1-3-16-24-18-10-5-7-12-20(18)26-22(24)14-9-15-23-25(17-4-2)19-11-6-8-13-21(19)27-23;/h5-15H,3-4,16-17H2,1-2H3;1H/q+1;/p-1
InChI key	JGTCEHAVVINOPG-UHFFFAOYSA-M

Vous recherchez des produits similaires ? Visitez [Guide de comparaison des produits](#)

Catégories apparentées

[Hematology Stains](#)

DESCRIPTION

Description générale

3,3'-Dipropylthiacarbocyanine iodide is a carbocyanine fluorescent dye sensitive to membrane potential. This cyanine dye plays a vital role as an optical probe of membrane potential. An increase in the fluorescence intensity of the dye indicates depolarization of the plasma membrane potential.

Application

3,3'-Dipropylthiacarbocyanine iodide has been used to determine bacterial membrane permeability by the effect of electrochemical scaffold treatment.

Conditionnement

250 mg in glass bottle

Actions biochimiques/physiologiques

The embrane potential sensitive dye, 3,3'dipropylthiacarbocyanine iodide enters only depolarized cells, where it binds reversibly to lipid-rich intracellular components.

INFORMATIONS SUR LA SÉCURITÉ

Pictograms



GHS07

Mention d'avertissement

Warning

Mentions de danger

H315 - H319 - H335

Conseils de prudence

P261 - P264 - P271 - P280 -
P302 + P352 - P305 + P351 +
P338

Classification des risques

Eye Irrit. 2 - Skin Irrit. 2 -
STOT SE 3

Organes cibles

Respiratory system

Code de la classe de stockage

11 - Combustible Solids

WGK

WGK 3

Flash Point(F)

Not applicable

Point d'éclair C

Not applicable

Équipement de protection individuelle

dust mask type N95 (US),
Eyeshields, Gloves

DOCUMENTATION

Certificat d'analyse

Saisir un numéro de lot pour rechercher un certificat d'analyse (COA).

Numéro de lot

e.g. 023J5431

Comment saisir un numéro de lot (COA)

Rechercher

Certificat d'origine

Saisir un numéro de lot pour rechercher un certificat d'origine (COO).

Numéro de lot

e.g. 023J5431

Comment saisir un numéro de lot (COO)

Rechercher

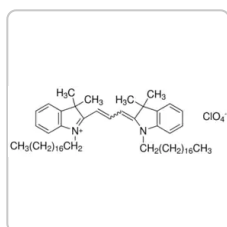
Plus De Documents

[Spectra - ATR-IR](#)

[Spectra for FT-IR Raman](#)

[Structure Search](#)

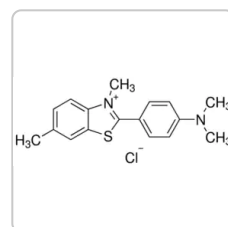
LES CLIENTS ONT ÉGALEMENT CONSULTÉ



Sigma-Aldrich

468495**1,1'-Diocetadecyl-3,3,3',3'-
tetramethylindocarbocyanine perchlorate**

97%

[Consulter le prix et la disponibilité](#)

Sigma-Aldrich

T3516**Thioflavin T**

used as stain for amyloid

[Consulter le prix et la disponibilité](#)

ARTICLES REVUS PAR DES PAIRS

Identification and functional characterization of ribosomal protein S23 as a new member of antimicrobial protein.

Zengyu Ma et al.*Developmental and comparative immunology*, 110, 103730-103730 (2020-05-20)

Previous studies show that some ribosomal proteins possess antimicrobial peptide (AMP) activity. However, information as such remains rather fragmentary and rather limited. We showed here for the first time that amphioxus RPS23, BjRPS23, was a previously uncharacterized AMP. It not

Augmentation of the antibacterial activities of Pt5-derived antimicrobial peptides (AMPs) by amino acid substitutions: Design of novel AMPs against MDR bacteria.

Yashuo Wang et al.*Fish & shellfish immunology*, 77, 100-111 (2018-03-24)

The ever-growing concerns on multi-drug resistant (MDR) bacteria lead to urgent demands for novel antibiotics including antimicrobial peptides (AMPs). Pt5, a peptide consisting of the C-terminal 55 residues of zebrafish phosvitin, has been shown to function as an antibacterial agent.

Preserved antibacterial activity of ribosomal protein S15 during evolution.

Baozhen Qu et al.

Molecular immunology, 127, 57-66 (2020-09-15)

Conventional role of ribosomal proteins is ribosome assembly and protein translation, but some ribosomal proteins also show antimicrobial peptide (AMP) activity, though their mode of action remains ill-defined. Here we demonstrated for the first time that amphioxus RPS15, BjRPS15, was

Synthetic antimicrobial peptides of the halictines family disturb the membrane integrity of Candida cells.

Marie Kodedová et al.

Biochimica et biophysica acta, 1859(10), 1851-1858 (2017-06-11)

We compared the potency of four derivatives of the antimicrobial peptide halictine-2 against six Candida species. Observed activity was peptide and species specific. Halictines rapidly permeabilized cell membranes and caused the leakage of cytosolic components. Their killing potential was enhanced

Antimycotic Activity of Ozonized Oil in Liposome Eye Drops against Candida spp.

Giuseppe Celenza et al.

Translational vision science & technology, 9(8), 4-4 (2020-08-29)

This study aims to investigate the antifungal activity and mechanism of action of ozonized oil eye drops in liposomes (Ozodrop), commercialized as eye lubricant for the treatment of dry eye syndrome and eye inflammation. The activity was tested against four

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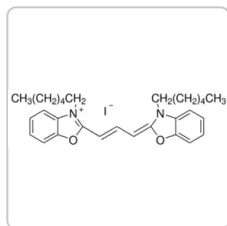
PROTOCOLES ET ARTICLES SCIENTIFIQUES

Articles

Sensor Dyes

Nitric oxide (NO) as a signal transporter in neurons, endothelial cells and in the immune system.

PRODUITS CONSULTÉS RÉCEMMENT



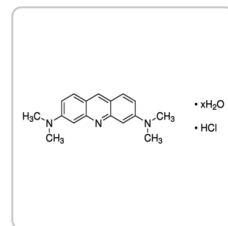
Sigma-Aldrich

318426

3,3'-Dihexyloxacarbocyanine iodide

98%

[Consulter le prix et la disponibilité](#)



Sigma-Aldrich

318337

Acridine Orange hydrochloride hydrate

≥98% (HPLC)

[Consulter le prix et la disponibilité](#)

Évaluations



[Soyez le premier à donner votre avis sur ce produit](#)

Questions

[Soyez le premier à poser une question](#)

SERVICE TECHNIQUE

Notre équipe de scientifiques dispose d'une expérience dans tous les secteurs de la recherche, notamment en sciences de la vie, science des matériaux, synthèse chimique, chromatographie, analyse et dans de nombreux autres domaines..

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Que pouvons-nous faire pour améliorer cette page spécifique de notre site Internet ?

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