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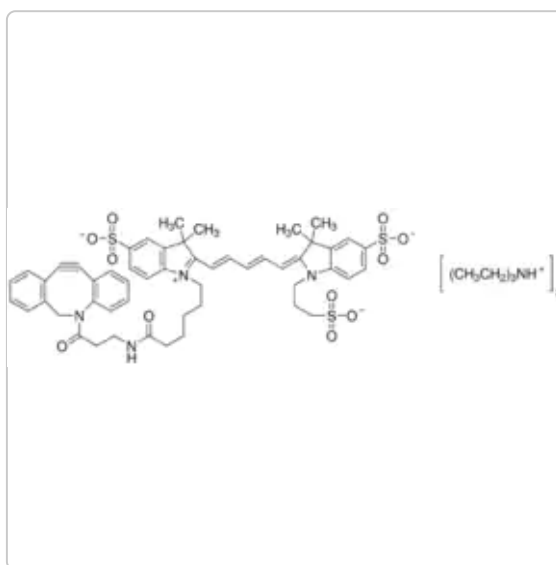
Saisir le nom du produit, le numéro de lot, etc.

**777374** ▶ **Sigma-Aldrich®**

DBCO-Cy5

★★★★★ (0)

for Copper-free Click Chemistry

[Toutes les photos](#) (3)**Synonyme(s):**

ADIBO-Cy5, Azadibenzocyclooctyne-Cy5, Dibenzocyclooctyne-Cy5

Empirical Formula (Hill Notation): $C_{64}H_{86}N_6O_{11}S_3$ **Poids moléculaire:**

1211.60

ID de substance PubChem:**329767903****NACRES:**

NA.22

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Reference

777374-1MG



1 MG

153,00 €



Disponible pour expédition le 10 octobre 2022 - **De**

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1

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Documents

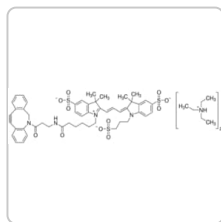
[↓ FDS](#)

[🔍 COO/COA](#)

[📄 Fiche des caractéristiques](#)

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PRODUITS RECOMMANDÉS



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777366

DBCO-Cy3

for Copper-free Click Chemistry

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**PROPRIETES****Niveau de qualité**

100

Forme

solid

reaction suitability

reaction type: click chemistry

Temp. de stockage

-20°C

SMILES string

```
CC[NH+](CC)CC.O=C(CCNC(CCCCC[N+]=C(/C=C/C=C/C=C2C(C)(C)C3=CC(S([O-])
(=O)=O)=CC=C3N\2CCCS([O-])(=O)=O)C(C)(C)C4=C1C=CC(S([O-])
(=O)=O)=C4)=O)N5CC6=C(C=CC=C6)C#CC7=C5C=CC=C7.CC[NH+](CC)CC
```

InChI

```
1S/C52H56N4O11S3.2C6H15N/c1-51(2)42-34-40(69(62,63)64)25-27-45(42)54(31-14-6-9-22-
49(57)53-30-29-50(58)56-36-39-18-11-10-16-37(39)23-24-38-17-12-13-19-44(38)56)47(51)20-7-5-
8-21-48-52(3,4)43-35-41(70(65,66)67)26-28-46(43)55(48)32-15-33-68(59,60)61;2*1-4-7(5-2)6-
3/h5,7-8,10-13,16-21,25-28,34-35H,6,9,14-15,22,29-33,36H2,1-4H3,
(H3-,53,57,59,60,61,62,63,64,65,66,67);2*4-6H2,1-3H3
```

InChI key

PNVUJAWSQCGWCT-UHFFFAOYSA-N

Catégories apparentées[Click Chemistry Reagents](#)**DESCRIPTION**

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Application

This azadibenzocyclooctyne-cyanine dye derivative is a versatile labeling reagent for detection of azide containing molecules or compounds. Cyclooctynes are useful in strain-promoted copper-free azide-

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Solubility : DMSO, DMF

Abs/Em - 646/661 nm

Extinction Coefficient:- 251,000 cm⁻¹M⁻¹

This azadibenzocyclooctyne-cyanine dye derivative is a versatile labeling reagent for detection of azide containing molecules or compounds. Cyclooctynes are useful in strain-promoted copper-free azide-alkyne cycloaddition reactions. This dibenzocyclooctyne will react with azide-functionalized compounds or biomolecules without the need for a Cu(I) catalyst to result in a stable triazole linkage.

Solubility : DMSO, DMF

Abs/Em - 646/661 nm

Extinction Coefficient:- 251,000 cm⁻¹M⁻¹

Conditionnement

1, 5 mg in amber glass bottle

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



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WGK

WGK 3

Flash Point(F)

Not applicable

Point d'éclair C

Not applicable

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

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Structure Search

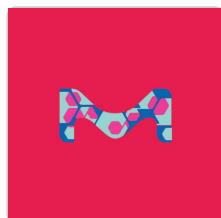
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GEPA15004

Cy[®]5 Bis NHS Ester

Cytiva PA15004, pack of 10 mg

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ARTICLES REVUS PAR DES PAIRS

Bio-orthogonal click-targeting nanocomposites for chemo-photothermal synergistic therapy in breast cancer.

Jianan Qiao et al.

Theranostics, 10(12), 5305-5321 (2020-05-07)

Chemo-photothermal synergistic treatment has a high potential to complement traditional cancer therapy and amplify its outcome. Precision in the delivery of these therapeutic agents to tumor cells has been indicated as being key to maximizing their therapeutic effects. Method: We

Targeting infected host cells in vivo via responsive azido-sugar mediated metabolic cell labeling followed by click reaction.

Yang Bo et al.

Biomaterials, 238, 119843-119843 (2020-02-18)

The early in vivo diagnosis of infectious disease foci is largely hindered by invasion and concealment of pathogens in host cells, making it difficult for conventional probes to detect and analyze intracellular pathogens. Taking advantage of the excessively produced reactive

Chemoenzymatic glycan labelling as a platform for site-specific IgM-antibody drug conjugate

Edward S X Moh et al.

Analytical biochemistry, 584, 113385-113385 (2019-08-06)

Immunoglobulin M (IgM) type antibodies play a significant role in complement activation, cellular debris clearance and cell quality control, and have the potential to be used as a therapeutic or targeting/delivery antibody. However, this potential has not been explored thoroughly

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Molecular Cell, 80(5), 796-809 (2020-11-07)

The linkage, length, and architecture of ubiquitin (Ub) chains are all important variables in providing tight control over many biological paradigms. There are clear roles for branched architectures in regulating proteasome-mediated degradation, but the proteins that selectively recognize and process

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Replication Fork Activation Is Enabled by a Single-Stranded DNA Gate in CMG Helicase.

Michael R Wasserman et al.

Cell, 178(3), 600-611 (2019-07-28)

The eukaryotic replicative helicase CMG is a closed ring around double-stranded (ds)DNA at origins yet must transition to single-stranded (ss)DNA for helicase action. CMG must also handle repair intermediates, such as reversed forks that lack ssDNA. Here, using correlative single-molecule

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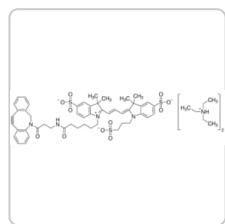
PROTOCOLES ET ARTICLES SCIENTIFIQUES

Articles

Copper-Free Click Chemistry

Copper-free click chemistry is an alternative approach to click chemistry that proceeds at a lower activation barrier and is free of cytotoxic transition metal catalysts.

PRODUITS CONSULTÉS RÉCEMMENT



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