[Toutes les photos \(2\)](#)

Documents

[↓ FDS](#)[🔍 COO/COA](#)[📄 Fiche des caractéristiques](#)**P1951** ▶ **Sigma-Aldrich.**

Phalloidin-Tetramethylrhodamine B isothiocyanate

★★★★★ (0)

sequence from *Amanita phalloides*(synthetic: peptide sequence)

Synonyme(s):

Phalloidin-TRITC

Empirical Formula (Hill Notation):

 $C_{60}H_{70}N_{12}O_{13}S_2$

Poids moléculaire: 1231.40

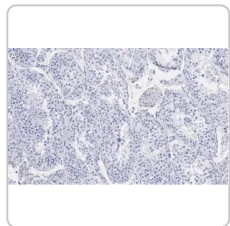
Numéro MDL: **MFCD00278840**

NACRES: NA.32

Référence	Conditionnement	Disponibilité	Prix	Quantité
P1951-1MG	0.1 MG	✓ Date d'expédition estimée le 27 octobre 2023	488,00 €	— + 

[Demander une commande en gros](#)[Ajouter au panier](#)

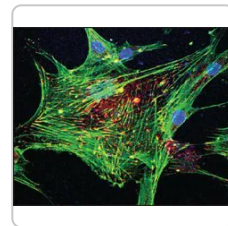
PRODUITS RECOMMANDÉS



Sigma-Aldrich

ZRB1316

Anti-Ac- α -Tubulin (Lys40) Antibody, clone 1L10, ZooMAb® Rabbit Monoclonal recombinant, expressed in HEK 293 cells

[Consulter le prix et la disponibilité](#)

Sigma-Aldrich

P5282

Phalloidin, Fluorescein Isothiocyanate Labeled
sequence *Amanita phalloides* (synthetic: peptide sequence)

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PROPRIÉTÉS

Source biologique	sequence from <i>Amanita phalloides</i> (synthetic: peptide sequence)
Niveau de qualité	200
Forme	solid
Fluorescence	λ_{ex} 540-545 nm; λ_{em} 570-573 nm
Temp. de stockage	-20°C

Catégories apparentées

[Detection Substrates & Enzymes](#)

DESCRIPTION

Description générale

Phalloidin is a phallotoxin produced by death cap mushroom *Amanita phalloides*. It is a cyclic peptide, which interacts with actin, and this was first identified in phalloidin-poisoned rats. It is a heptapeptide, cyclic in nature, with a crosslink between tryptophan at position 6 and cysteine at position 3. The side chain of amino acid 7 (γ - δ -dihydroxyleucine) in phalloidin, is accessible to modifications, through which florescent labelled phalloidin compounds can be produced.

Application

Fluorescent phallotoxin which may be used to identify filamentous actin.

Phalloidin-Tetramethylrhodamine B isothiocyanate has been used:-

- In Immunofluorescence for staining Filamentous actin (F-actin)
- To stain cells during immunocytochemical and cytochemical analysis
- To label actin microfilaments for fluorescence microscopy

Actions biochimiques/physiologiques

Phalloidin interacts with polymeric actin, and not oligomeric or monomeric forms. This interaction leads to highly stabilized actin filaments, which resist depolymerization and disassembly. In rats, this toxin causes death due to liver hemorrhage, and cells show abnormal actin clustering. The affinity of phalloidin to actin is not significantly altered after derivatizing florescent labelled phalloidin compounds. These compounds can be used to study actin structure and organization within eukaryotic cells.

Toxin that binds polymeric F actin, stabilizing it and interfering with the function of actin-rich structures.

Autres remarques

May contain mixed isomers

PRODUITS APPARENTÉS

Produit Apparenté

92210

Timestrip Plus™ 0 °C

[View Pricing](#)

06693

Timestrip Plus™ -20 °C

[View Pricing](#)

INFORMATIONS SUR LA SÉCURITÉ

Pictograms



GHS06

Mention d'avertissement

Danger

Mentions de danger

H300 + H310 + H330

Conseils de prudence

**P260 - P262 - P264 - P280 -
P302 + P352 + P310 - P304 +
P340 + P310**

Classification des risques

Acute Tox. 2 Dermal - Acute
Tox. 2 Inhalation - Acute Tox.
2 Oral

Code de la classe de stockage

6.1A - Combustible, acute
toxic Cat. 1 and 2 / very toxic
hazardous materials

WGK

WGK 3

Flash Point(F)

Not applicable

Point d'éclair C

Not applicable

Équipement de protection individuelle

Eyeshields, Faceshields,
Gloves, type ABEK
(EN14387) respirator filter

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).

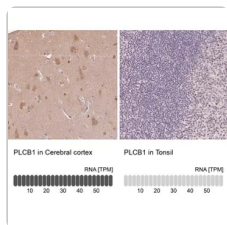
Numéro de lot

e.g. 023J5431

Comment saisir un numéro de lot (COO)

Rechercher

LES CLIENTS ONT ÉGALEMENT CONSULTÉ



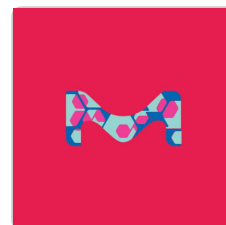
Sigma-Aldrich

HPA034743

Anti-PLCB1 antibody produced in rabbit

Prestige Antibodies® Powered by Atlas Antibodies, affinity isolated antibody, buffered aqueous glycerol...

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Sigma-Aldrich

78999

Phalloidin-Atto 430LS

suitable for fluorescence

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ARTICLES REVUS PAR DES PAIRS

Reduced expression of the ROCK inhibitor Rnd3 is associated with increased invasiveness and metastatic potential in mesenchymal tumor cells.

Cristina Belgiovine et al.

PloS one, 5(11), e14154-e14154 (2011-01-07)

Mesenchymal and amoeboid movements are two important mechanisms adopted by cancer cells to invade the surrounding environment. Mesenchymal movement depends on extracellular matrix protease activity, amoeboid movement on the RhoA-dependent kinase ROCK. Cancer cells can switch from one mechanism to

Breast cancer cell motility is promoted by 14-3-3γ.

Emiko Hiraoka et al.

Breast cancer (Tokyo, Japan), 26(5), 581-593 (2019-03-05)

Pseudopodia are actin-rich ventral protrusions associated with cell motility and cancer cell invasion. We previously applied our established method of using excimer laser cell etching to isolate pseudopodial proteins from MDA-MB-231 breast cancer cells. We later identified 14-3-3γ as an

Fluorescent phalloxin, a tool for the visualization of cellular actin.

E Wulf et al.

Proceedings of the National Academy of Sciences of the United States of America, 76(9), 4498-4502 (1979-09-01)

A fluorescent derivative of phalloidin has been synthesized possessing high affinity to filamentous actin. This compound was used for visualization of actin-containing structures in eukaryotic nonmuscle cells. Due to its low molecular weight (1250), fixation for formaldehyde was sufficient to

Differential effects of prenylation and s-acylation on type I and II ROPS membrane interaction and function.

Nadav Sorek et al.

Plant physiology, 155(2), 706-720 (2010-12-09)

Prenylation primarily by geranylgeranylation is required for membrane attachment and function of type I Rho of Plants (ROPs) and Gγ proteins, while type II ROPs are attached to the plasma membrane by S-acylation. Yet, it is not known how prenylation

Improving linking interface between collagen-based hydrogels and bone-like substrates.

Anna Mas-Vinyals et al.

Colloids and surfaces. B, Biointerfaces, 181, 864-871 (2019-08-07)

Regenerative medicine requires the use of heterogeneous scaffolds when the tissue that needs to be repaired presents a gradient in its properties and cannot be replaced by a homogeneous graft. Then, an intimate contact between the different layers is critical

Afficher tous les articles scientifiques apparentés

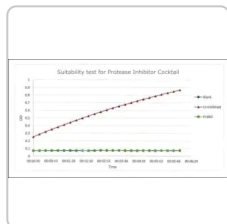
PROTOCOLES ET ARTICLES SCIENTIFIQUES

Contenu apparenté

Preparation & Staining of 3D Printed Tissues & Scaffolds

Three-dimensional (3D) printing of biological tissue is rapidly becoming an integral part of tissue engineering.

PRODUITS CONSULTÉS RÉCEMMENT



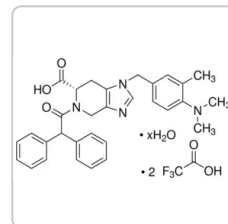
Sigma-Aldrich

P1860

Protease Inhibitor Cocktail

for use in tissue culture media, DMSO solution

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Sigma-Aldrich

P186

PD 123,319 di(trifluoroacetate) salt hydrate

powder, ≥98% (HPLC)

[Consulter le prix et la disponibilité](#)

Évaluations



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Questions

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

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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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