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DATASHEET

Rhodamine phalloidin-TRITC

Product overview

Name Rhodamine phalloidin-TRITC

Cat No HB862

Biological description Red-orange fluorescent cytoskeleton stain which binds and labels F-actin.

Has a wide range of applications and can be used in tissue sections, cell cultures and cell-free

experiments samples.

Biological action

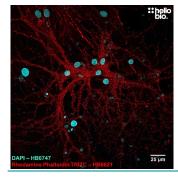
Dyes & stains

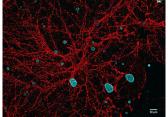
Purity

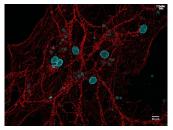
>95%

Description Red-orange fluorescent cytoskeleton stain.

Images







Biological Data

Application notes

For our 300 tests pack, to make your stock solution, you should dissolve the contents of the vial in 1.5 mL of methanol or DMSO.

#Protocol 1: Rhodamine Phalloidin TRITC labelling of primary cultured neurones.

- Primary neurones were isolated and cultured from P2 rats and grown for three weeks before being fixed with 4% paraformaldehyde and permeabilised with 0.1% Triton X-100.
- Coverslips were incubated for 1 hour with Rhodamine Phalloidin TRITC (183nM, 1:40 dilution of staining solution)
- \bullet Coverslips were then submerged in 1µg/ml DAPI diluted in PBS for 1 minute.
- Coverslips were mounted and imaged with a fluorescent microscope.

Solubility & Handling

Storage instructions Solubility overview -20°C

Soluble in DMSO (NB: may appear colourless in very dry solvent)

Storage of solutions

Shipping Conditions Important Prepare and use solutions on the same day if possible. Store solutions at -20 °C for up to one month if storage is required. Equilibrate to RT and ensure the solution is precipitate free before use.

Stable for ambient temperature shipping. Follow storage instructions on receipt.

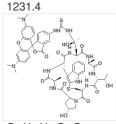
This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use

Chemical Data

Chemical name 7-[(4R)-5-[[[[4-[3,6-Bis(dimethylamino)xanthylium-9-yl]-3-carboxyphenyl]amino]thioxomethyl]amino]-4-

hydroxy-L-leucine]phalloidin

Molecular Weight Chemical structure



SMILES C[C@H]1C(=O)N[C@H]2CC3=C(NC4=CC=CC=C34)SC[C@@H](C(=O)N5C[C@H]5C(=O)N5C[C@H](C[C@H]5C(=O)N5C[C@H]5C(=O)N5C[C@H](C[C@H]5C(=O)N5C[C@H]5C(=O)N5C[C@H](C[C@H]5C(=O)N5C(=O)N5C(=

)N1)O)NC(=O)[C@H](NC(=O)[C@@H](NC(=O)[C@@H](NC2=O)C[C@](C)(CNC(=S)NC6=CC(=C(

C = C6)C(=O)[O-])C7 = C8C = CC(=[N+](C)C)C = C8OC9 = C7C = CC(=C9)N(C)C)O(C)CO(C)CO(C)

InChiKey NRDVPFYYTLFSBJ-IZZNSDNCSA-N

MDL number MFCD30748671

Excitation ~540 **Emission** 565 nm

References

Labeling cytoskeletal F-actin with rhodamine phalloidin or fluorescein phalloidin for imaging

Chazotte B (2010) Cold Spring Harb Protoc 2010(5) **PubMedID**20439405

Distribution and orientation of rhodamine-phalloidin bound to thin filaments in skeletal and cardiac myofibrils

Zhukarev V et al (1997) Cell Motil Cytoskeleton 37(4)

PubMedID 9258508

Formation and destabilization of actin filaments with tetramethylrhodamine-modified actin

Kudryashov DS *et al* (2004) Biophys J 87(2) **PubMedID** 15298916

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