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## DATASHEET

### Rhodamine phalloidin-TRITC

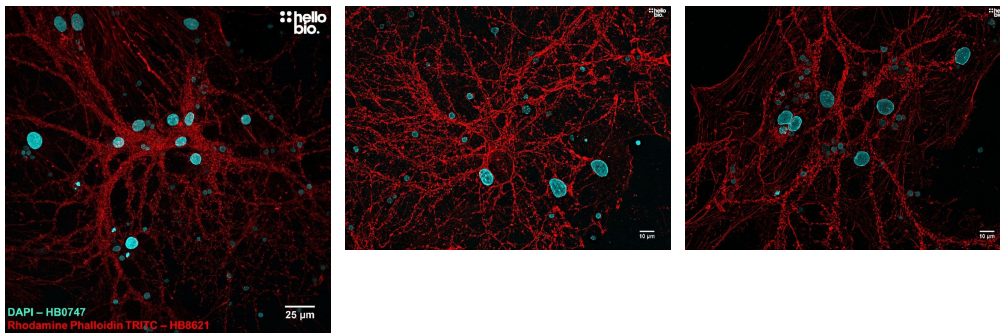
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#### Product overview

<b>Name</b>	Rhodamine phalloidin-TRITC
<b>Cat No</b>	HB8621
<b>Biological description</b>	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.
<b>Biological action</b>	Dyes & stains
<b>Purity</b>	>95%
<b>Description</b>	Red-orange fluorescent cytoskeleton stain.

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#### 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)
  - Coverslips were then submerged in 1 µg/ml DAPI diluted in PBS for 1 minute.
  - Coverslips were mounted and imaged with a fluorescent microscope.
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#### Solubility & Handling

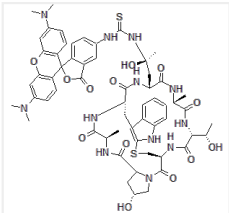
**Storage instructions** -20 °C  
**Solubility overview** Soluble in DMSO (NB: may appear colourless in very dry solvent)

**Important**

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

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## Chemical Data

<b>Chemical name</b>	7-[(4R)-5-[[[4-[3,6-Bis(dimethylamino)xanthylium-9-yl]-3-carboxyphenyl]amino]thioxomethyl]amino]-4-hydroxy-L-leucine]phalloidin
<b>Molecular Weight</b>	1231.4
<b>Chemical structure</b>	
<b>Molecular Formula</b>	C <sub>60</sub> H <sub>70</sub> N <sub>12</sub> O <sub>13</sub> S <sub>2</sub>
<b>CAS Number</b>	1926163-50-9
<b>PubChem identifier</b>	137247539
<b>SMILES</b>	<chem>C[C@H]1C(=O)N[C@H]2CC3=C(NC4=CC=CC=C34)SC[C@@H](C(=O)N5C[C@H](C[C@H]5C(=O)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)[C@H](C)O</chem>
<b>InChiKey</b>	NRDVPFYYTLFSBJ-IZZNSDNC-SA-N
<b>MDL number</b>	MFCD30748671
<b>Excitation</b>	~540
<b>Emission</b>	565 nm

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## 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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