

## Phalloidin

## Chemical Properties

CAS No.:	17466-45-4
Formula:	C <sub>35</sub> H <sub>48</sub> N <sub>8</sub> O <sub>11</sub> S
Molecular Weight:	788.87
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

## Biological Description

Description	Phalloidin is a mushroom-derived toxin which used to label F-actin of the cytoskeleton with fluorochrome .
Targets(IC <sub>50</sub> )	Others: None
In vitro	Phalloidin is available labeled with different fluorophores. The choice of the specific fluorophore should depend on whether phalloidin labeling for actin is part of a double-label experiment. In most cells, the abundance of actin filaments should provide a very strong signal. In double-label experiments, the fluorophore should be chosen to take this into account. In general, rhodamine labels are more resistant to photobleaching and can be subjected to the longer exposures required for finer structures.

## Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.268 mL	6.338 mL	12.676 mL
5 mM	0.254 mL	1.268 mL	2.535 mL
10 mM	0.127 mL	0.634 mL	1.268 mL
50 mM	0.025 mL	0.127 mL	0.254 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

## Reference

1. Chazotte B. Labeling cytoskeletal F-actin with rhodamine phalloidin or fluorescein phalloidin for imaging. Cold Spring Harb Protoc. 2010 May;2010(5):pdb.prot4947.

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