

Phalloidin (FITC)

Cat. No. GTX49383

Applications	ICC/IF
Species	Amanita phalloides

Package
100 µg

PRODUCT

Summary

Phalloidin is a fungal toxin isolated from the poisonous mushroom *Amanita phalloides*. Its toxicity is attributed to the ability to bind F actin in liver and muscle cells. As a result of binding phalloidin, actin filaments become strongly stabilized. Phalloidin has been found to bind only to polymeric and oligomeric forms of actin, and not to monomeric actin. Fluorescent conjugates of phalloidin are used to label actin filaments for histological applications. Some structural features of phalloidin are required for the binding to actin.

Applications

Application Note

Stock solutions of phalloidin conjugates have been made in DMSO at 0.1–5 mg/ml. Final staining solutions in aqueous physiological buffers are in the concentration range of 0.25 - 125 µg/ml with corresponding incubation times of 15 minutes to 72 hours. The following procedure may be used as a guideline for staining cells:

1. Cells are washed with phosphate buffered saline (PBS).
2. Cells are fixed for 5 minutes in 3.7% formaldehyde solution in PBS. Then washed extensively in PBS.
3. Cells are permeabilized with 0.1% Triton X-100 in PBS, and washed again in PBS.
4. Cells are stained with a fluorescent phalloidin conjugate solution in PBS (containing 1% DMSO from the original stock solution) for 40 minutes at room temperature.
5. Wash several times with PBS to remove unbound phalloidin conjugate.

Properties

Form	Lyophilized powder
Storage	Store as concentrated solution. Centrifuge briefly prior to opening vial. For short-term storage (1-2 weeks), store at 4°C. For long-term storage, aliquot and store at -20°C or below. Avoid multiple freeze-thaw cycles. Protect from light.
Conjugation	Fluorescein isothiocyanate (FITC) Wavelength

Note

For laboratory research use only. Not for any clinical, therapeutic, or diagnostic use in humans or animals. Not for animal or human consumption.

Purchasers shall not, and agree not to enable third parties to, analyze, copy, reverse engineer or otherwise attempt to determine the structure or sequence of the product.



For full product information, images and publications, please visit our [website](#).