

DATASHEET

ActinStain 647

ActinStain 647

ATTO647-Phalloidin
Cat. #: 8817-01

Kit Content

1x 100 units ATTO647-Phalloidin
1x 1.0ml PolyMix (10x)

For Laboratory Use Only.

Not for Use in Veterinary or Human Diagnostic or Therapeutic Processes.

Product Documentation

ActinStain permits rapid staining of single actin filaments with highly photostable 647-Phalloidin. Phalloidin is a bicyclic peptide of a family of toxins isolated from the *Amanita phalloides* "death cap" mushroom. This fluorescently labeled peptide is commonly used as a selective stain or counterstain to specifically label F-actin in fixed or permeabilized cells, and cell-free experiments.

Phalloidin conjugates bind in a stoichiometric ratio of about one phalloxin per actin subunit in both muscle and non-muscle cells, and have similar affinity for both large and small filaments. Phalloidins do not bind to monomeric actin and have a stabilizing effect on F-actin.

ATTO647 (λ_{abs} 644nm, λ_{fl} 669nm) provides strong orange-red fluorescence of high brightness and superior photostability.

Handling of PolyMix

Add 1.0ml H₂O ultrapure to the tube to obtain a 10x PolyMix buffer and vortex until dissolved. This stock can be stored on ice. Aliquots can be prepared of the 10x stock for storage at -70°C for 3 months.

Preparation of a Phalloidin working stock

Add 100µl MeOH (>99.5%), DMF or DMSO to the tube with 647-Phalloidin. Leave at room temperature for 5min and vortex to dissolve. This stock can now be stored at -20°C – 70°C. To prepare a ready-to-use solution, mix 5µl of the 647-Phalloidin stock with 125µl 1x PolyMix. Mix 25µl of this phalloidin stock with the actin filaments on each slide. The suitable volume added to the sample has to be determined individually. The sample is now ready for inspection. If the background is too high, reduce the amount of phalloidin added to the sample. Works with 647-Phalloidin are carried out under laboratory safety regulations.

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Storage and Stability

For continuous use, store the Phalloidin stock in solvent at -20°C for up six months. For extended storage, the solution is frozen at -70°C for at least one year. Avoid repeated freeze/thawing and prepare aliquots if this is expected to occur frequently. Protect the fluorescent conjugate from light.

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