Lysine Phalloidin

Cat:CA1600
Size:100μg
Storage: -15℃ storage, away from light and moisture; Valid for 2 years.
Properties: Solid
Product description:

Lysine phalloidin is a handy compound that can be used to develop a variety of ghost pen cyclic peptide derivatives that can be used to study cell structure and other biological applications. It readily reacts with amine reactive dyes, biotin, and other label molecules (e.g. NHS esters, isothiocyanates, and sulfonyl chloride, among others). Lysine phalloidin is a bicyclic heptapeptide toxin that specifically binds to the interface between F-actin subunits, locking adjacent subunits together. Ghost cyclin binds to the actin filaments much more tightly than it binds to the actin monomer, resulting in a reduced rate constant at which the actin subunits dissociate from the filament end, thereby essentially stabilizing the actin filaments by preventing the filaments from depolymerizing. The properties of porcine cyclin are a useful tool for studying the distribution of F-actin in cells by labeling porcine cyclin with fluorescent analogues and using them to stain actin filaments for optical microscopy. Fluorescent derivatives of ghost cyclin peptides have proven to be very useful in locating actin filaments in living or immobilizing cells, as well as in visualizing individual actin filaments in vitro. Fluorescent ghost cyclin derivatives have been used as an important tool for studying actin networks at high resolution.

Applications:

Study the distribution of F-actin in cells.