A novel marine natural product which binds to actin in a 1:1 molar ratio ($K_d=13-20$ nM). It selectively and completely depolymerizes F-actin to G-actin via a novel mechanism different from that of the cytochalasin D. It is a novel and specific inhibitor of actomyosin ATPase.

1) Saito et al. (1994), Mycalolide B, a novel actin depolymerizing agent; J. Biol. Chem., 269 29710
2) Sugidachi et al. (1998), Inhibition of rat platelet aggregation by mycalolide-B, a novel inhibitor of actin polymerization with a different mechanism of action from cytochalasin-D; Thromb. Haemost., 79 614
3) Hori et al. (1993), Mycalolide-B, a novel and specific inhibitor of actomyosin ATPase isolated from marine sponge; FEBS Lett., 322 151

**PHYSICAL DATA**

Molecular Weight: 1027.16  
Molecular Formula: C_{52}H_{74}N_{4}O_{17}  
Purity: 98% by HLC  
NMR: (Conforms)  
Solubility: DMSO (up to 20 mg/ml)  
Physical Description: Colorless waxy film  
Storage and Stability: Store as supplied desiccated at -20°C for up to 2 years from the date of purchase. Solutions in DMSO may be stored at -20°C for up to 3 months.

Materials provided by Focus Biomolecules are for laboratory research use only and are not intended for human or veterinary applications.