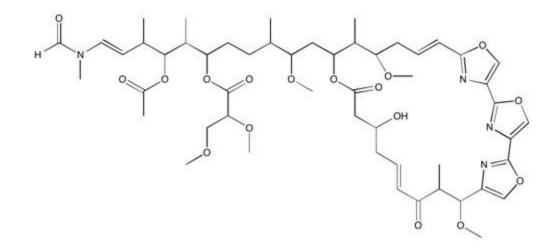


Catalog # 10-2217 Mycalolide B CAS# 122752-21-0

From *Mycale sp.* Lot # X101226



A novel marine natural product which binds to actin in a 1:1 molar ratio (K_d =13-20 nM).¹ It selectively and completely depolymerizes F-actin to G-actin *via* a novel mechanism different from that of the cytochalasin D.² It is a novel and specific inhibitor of actomyosin ATPase.³

- 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.