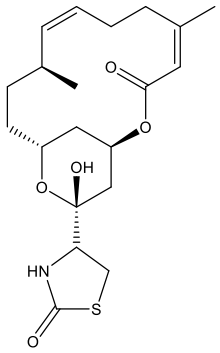
Catalog # 10-4303

Latrunculin B

CAS# 76343-94-7

Lot # FBA9096



Inhibits actin polymerization and disrupts microfilament organization[1]. Significantly more potent than cytochalasins in the disruption of microfilamament mediated processes[2], causes shortening and thickening of stress fibers. Active in cell culture.[3,4] Effective doses vary depending upon cell type but are frequently in the low micromolar range. Note: Latrunculin B is slowly inactivated by fetal bovine serum.

1) Coue *et al*. (1987), *Inhibition of actin polymerization by latrunculin*; FEBS Lett., **213** 316
2) Spector *et al*. (1989), *Latrunculins-novel marine macrolides that disrupt microfilament organization and affect cell growth*; Cell Motil. Cytoskeleton, **13** 127
3) Wakatsuki *et al*. (2001), *Effects of cytochalasin D and latrunculin B on mechanical properties of cells*; J. Cell. Sci., **114** 1025
4) Cha *et al*. (2004), *The lateral mobility of NHE3 on the apical membrane of renal epithelial OK cells is limited by the PDZ domain proteins NHERF1/2 but is dependent on an intact actin cytoskeleton as determined by FRAP*; Prog. Clin. Biol. Res., **230** 41

PHYSICAL DATA

Molecular Weight:	395.52
Molecular Formula:	$C_{20}H_{29}NO_5S$
Purity:	>95% by HPLC
	NMR: (Conforms)
Solubility:	DMSO (up to 25 mg/ml) or Ethanol (up to 25 mg/ml)
Physical Description:	Off-white solid
Storage and Stability:	Store as supplied at -20°C for up to 1 year from the date of purchase. Solutions in DMSO or ethanol may be stored at -20°C for up to 3 months.

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