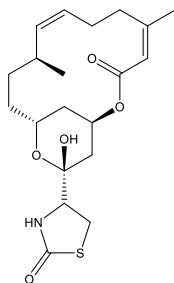


**Catalog # 10-4303**

**Latrunculin B**

CAS# 76343-94-7

Lot # FBA3062



Inhibits actin polymerization and disrupts microfilament organization<sup>1</sup>. Significantly more potent than cytochalasins in the disruption of microfilament mediated processes<sup>2</sup>, causes shortening and thickening of stress fibers. Active in cell culture.<sup>3,4</sup> 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 <sub>20</sub> H <sub>29</sub> NO <sub>5</sub> S
Purity:	>98% 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.

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