

PRODUCT DATA SHEET



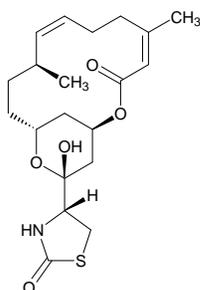
PRODUCT: Latrunculin B

CAS NO: 76343-94-7

CATALOG NO.: T-110

LOT NO.: temp

STRUCTURE:



PHYSICAL APPEARANCE: Lyophilized solid

MOLECULAR FORMULA: $C_{20}H_{29}NSO_5$

MOLECULAR WEIGHT: 395.5

PURITY: 98% (TLC: 50% Ethyl acetate/Hexane; $R_f = 0.60$)

SOLUBILITY: Soluble in DMSO (25 mg/mL) and ethanol (25 mg/mL)

STORAGE: Store, as supplied, at $-20^{\circ}C$ for up to 1 year. Store solutions at $-20^{\circ}C$ for up to 3 months.

APPLICATION NOTES: Inhibits actin polymerization¹ and disrupts microfilament organization² as well as microfilament-mediated processes^{3,4} and is 10 to 100-fold more potent than the cytochalasins^{2,5}. Effects on N1E-115 cells(mouse neuroblastoma) at concentrations as low as 90 nM(NI43T3 cells, 0.9 μM).⁵ Maximum effects at 2.5 μM . Slowly inactivated by fetal bovine serum.²

- REFERENCES:
1. M.Coue *et al.* *FEBS Lett.* 1987 **213** 316
 2. I.Spector *et al.* *Cell Motil.Cytoskeleton* 1989 **13** 127
 3. C.A.de Oliveira and B.Mantovani *Life Sci.* 1988 **43** 1825
 4. G.Schatten *et al.* *Exp.Cell Res.* 1986 **166** 191
 5. I.Spector *et al.* *Science* 1983 **219** 493

The pharmacological and toxicological properties of this product have not been fully investigated. Exercise caution in use and handling. This product must not be used in humans.