PRODUCT: Latrunculin B                CAS NO:  76343-94-7
CATALOG NO.: T-110               LOT NO.:  temp

STRUCTURE:

PHYSICAL APPEARANCE: Lyophylized 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°C for up to 1 year. Store solutions at -20°C for up to 3 months.

APPLICATION NOTES: Inhibits actin polymerization\(^1\) and disrupts microfilament organization\(^2\) 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:

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.