



# SZABO SCANDIC

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## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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# PRODUCT INFORMATION



## Latrunculin B

Item No. 10010631

**CAS Registry No.:** 76343-94-7  
**Formal Name:** 4R-[(1R,4Z,8Z,10S,13R,15R)-15-hydroxy-5,10-dimethyl-3-oxo-2,14-dioxabicyclo[11.3.1]heptadeca-4,8-dien-15-yl]-2-thiazolidinone

**Synonym:** NSC 339663

**MF:** C<sub>20</sub>H<sub>29</sub>NO<sub>5</sub>S

**FW:** 395.5

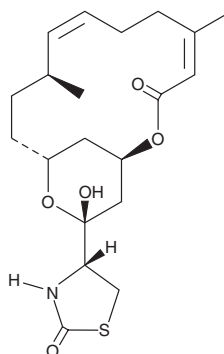
**Purity:** ≥97%

**Supplied as:** A film

**Storage:** -20°C

**Stability:** ≥4 years

**Item Origin:** Animal/*Latrunculia magnifica*



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

### Laboratory Procedures

Latrunculin B is supplied as a film. A stock solution may be made by dissolving the latrunculin B in the solvent of choice, which should be purged with an inert gas. Latrunculin B is soluble in organic solvents such as ethanol and DMSO. The solubility of latrunculin B in these solvents is approximately 25 mg/ml.

### Description

The latrunculins are commonly used to experimentally disrupt the actin cytoskeleton of cells. Latrunculin B causes concentration-dependent changes in cell shape and actin organization. It sequesters G-actin and prevents F-actin assembly. It binds monomeric actin with 1:1 stoichiometry and can be used to block actin polymerization both *in vitro* and in cells ( $K_d = 60$  nM).<sup>1</sup> The short-term effects of latrunculin B are comparable to those of latrunculin A, although latrunculin B is slightly less potent.<sup>2</sup> However, latrunculin B is gradually inactivated by serum so that induced changes are transient in the continued presence of the compound. For this reason, latrunculin B may have fewer unwanted effects than latrunculin A and may be preferred for short-term studies.

### References

1. Wakatsuki, T., Schwab, B., Thompson, N.C., *et al.* Effects of cytochalasin D and latrunculin B on mechanical properties of cells. *J. Cell Sci.* **114**, 1025-1036 (2000).
2. Spector, I., Schochet, N.R., Blasberger, D., *et al.* Latrunculins-novel marine macrolides that disrupt microfilament organization and affect cell growth: I. comparison with cytochalasin D. *Cell. Motility. Cytoskel.* **13**, 127-144 (1989).

#### WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

#### SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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