



LKT Laboratories, Inc.

Latrunculin A

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## Product Information

Product ID L0076

CAS No. 76343-93-6

Chemical Name

Synonym

Formula  $C_{22}H_{31}NO_5S$

Formula Wt. 421.55

Melting Point

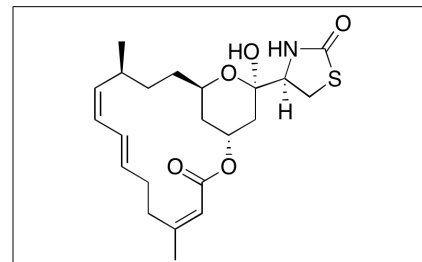
Purity

Solubility

Store Temp -20°C

Ship Temp Ambient

**Description** Latrunculin A is a thiazolidine macrolide found in the Red Sea sponge. Latrunculin A binds actin, releasing RhoA effector mDia1 and inhibiting microtubule polymerization in vitro. Latrunculin A may have anticancer or anti-angiogenic activities, as a synthetic derivative inhibits cell invasion and activation of HIF-1 $\alpha$  in breast cancer cells.



## Pricing and Availability

*Bulk quantities available upon request*

Product ID	Size	List Price
L0076	100 $\mu$ g	\$275.40
L0076	500 $\mu$ g	\$989.90

**References** Helal MA, Khalifa S, Ahmed S. Differential binding of latrunculins to G-actin: a molecular dynamics study. J Chem Inf Model. 2013 Sep 23;53(9):2369-75. PMID: 23988111.

Bartolini F, Ramalingam N, Gundersen GG. Actin-capping protein promotes microtubule stability by antagonizing the actin activity of mDia1. Mol Biol Cell. 2012 Oct;23(20):4032-40. PMID: 22918941.

Rennebaum S, Caflisch A. Inhibition of interdomain motion in g-actin by the natural product latrunculin: a molecular dynamics study. Proteins. 2012 Aug;80(8):1998-2008. PMID: 22488806.

Khanfar MA, Youssef DT, El Sayed KA. Semisynthetic latrunculin derivatives as inhibitors of metastatic breast cancer: biological evaluations, preliminary structure-activity relationship and molecular modeling studies. ChemMedChem. 2010 Feb 1;5(2):274-85. PMID: 20043312.

Sayed KA, Khanfar MA, Shallal HM, et al. Latrunculin A and its C-17-O-carbamates inhibit prostate tumor cell invasion and HIF-1 activation in breast tumor cells. J Nat Prod. 2008 Mar;71(3):396-402. PMID: 18298079.

**Caution:** This product is intended for laboratory and research use only. It is not for human or drug use.