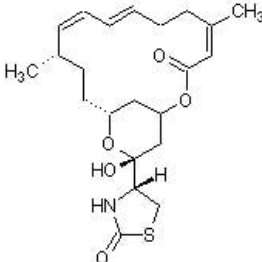


## Product datasheet

# Latrunculin A (LAT-A), Actin polymerization inhibitor ab144290

[18 References](#) [1 Image](#)

### Overview

<b>Product name</b>	Latrunculin A (LAT-A), Actin polymerization inhibitor
<b>Description</b>	Actin polymerization inhibitor. Potent antiproliferative agent.
<b>Biological description</b>	Actin polymerization inhibitor. Potent antiproliferative agent. Stabilizes monomeric G-actin. Shows greater potency than Latrunculin B ( <a href="#">ab144291</a> ). Binds actin monomers near the nucleotide binding cleft with 1:1 stoichiometry. Inhibits growth of cancer cell lines (IC <sub>50</sub> values are 142, 142, 142, 166 and 95 nM for A549, H522-T1, HT-29, U-937 and MDA-MB-43 cells respectively). Shows convulsant effects <i>in vivo</i> .
<b>Purity</b>	> 95%
<b>CAS Number</b>	76343-93-6
<b>Chemical structure</b>	

### Properties

<b>Chemical name</b>	(4R)-4-[(1R,4Z,8E,10Z,12S,15R,17R)-17-Hydroxy-5,12-dimethyl-3-oxo-2,16-dioxabicyclo[13.3.1]nonadeca-4,8,10-trien-17-yl]-2-thiazolidinone
<b>Molecular weight</b>	421.55
<b>Molecular formula</b>	C <sub>22</sub> H <sub>31</sub> NO <sub>5</sub> S
<b>PubChem identifier</b>	445420
<b>Storage instructions</b>	Store at -20°C. It is important to note that this product is reported to be light sensitive. Store In the Dark. Store under desiccating conditions.
<b>Solubility overview</b>	Soluble in ethanol to 10 mM and in DMSO to 10 mM
<b>Handling</b>	Wherever possible, you should prepare and use solutions on the same day. However, if you need to make up stock solutions in advance, we recommend that you store the solution as aliquots in

tightly sealed vials at -20°C. Generally, these will be useable for up to one month. Before use, and prior to opening the vial we recommend that you allow your product to equilibrate to room temperature for at least 1 hour.

Need more advice on solubility, usage and handling? Please visit our [frequently asked questions \(FAQ\) page](#) for more details.

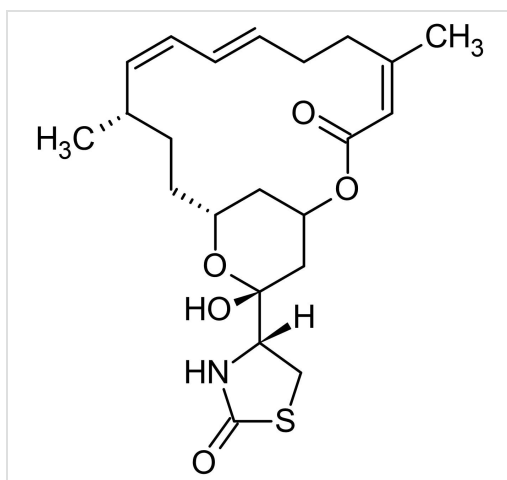
#### SMILES

```
C[C@H]/1CC[C@@H]2C[C@H](C[C@@])(O2)
([C@@H]3CSC(=O)N3)OC(=O)/C=C(\CC/C=C/C=C1)/C
```

#### Source

*Cacospongia mycofijiensis*

#### Images



2D chemical structure image of ab144290, Latrunculin A (LAT-A), Actin polymerization inhibitor

Chemical Structure - Latrunculin A (LAT-A), Actin polymerization inhibitor (ab144290)

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES, NOT FOR USE IN HUMANS"

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