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DATASHEET

Latrunculin A

Product overview

Name	Latrunculin A
Cat No	HB0375
Biological action	Inhibitor
Purity	>96%
Description	Actin polymerization inhibitor

Images



Biological Data

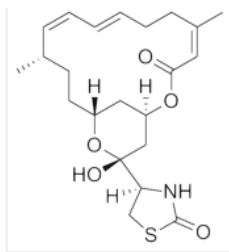
Biological description	Actin polymerization inhibitor that binds to monomeric G actin ($K_d = 0.2 \mu\text{M}$). Also inhibits adenine nucleotide exchange on actin. Plays a role in depolymerization of tumor cell cytoskeleton and shows possible anti-inflammatory properties.
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Solubility & Handling

Storage instructions	-20°C
Solubility overview	Soluble in DMSO (10mM)
Important	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

Chemical Data

Chemical name	4-[(1 <i>R</i> ,4 <i>Z</i> ,8 <i>E</i> ,10 <i>Z</i> ,12 <i>S</i> ,15 <i>R</i> , 17 <i>R</i>)-17-Hydroxy-5,12-dimethyl-3-oxo-2,16-dioxabicyclo[13.3.1]nonadeca-4,8,10-trien-17 -yl]-2-thiazolidinone
Molecular Weight	421.55
Chemical structure	A large empty rectangular box intended for the chemical structure of Latrunculin A.



Molecular Formula
CAS Number
PubChem identifier
SMILES

C₂₂H₃₁NO₅S
76343-93-6
445420

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

InChi

InChI=1S/C22H31NO5S/c1-15-7-5-3-4-6-8-16(2)11-20(24)27-18-12-17(10-9-15)28-22(26,13-18)19-14-29-21(25)23-19/h3-5,7,11,15,17-19,26H,6,8-10,12-14H2,1-2H3,(H,23,25)/b4-3+,7-5-,16-11-/t15-,17-,18-,19+,22-/m1/s1

InChiKey

DDVBPZROPPMBLW-IZGXTMSKSA-N

References

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Characterization of the activities of actin-affecting drugs on tumor cell migration.

Hayot C *et al* (2006) Toxicol Appl Pharmacol 211(1)

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Inhibition of actin polymerization by latrunculin A.

Coué M *et al* (1987) FEBS Lett 213(2)

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