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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 µM). Also inhibits adenine nucleotide exchange on actin. Plays a role in depolymerization of tumor cell cytoskeleton and shows possible anti-inflammatory properties.

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*R*,4*Z*,8*E*,10*Z*,12*S*,15*R*, 17*R*)-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	

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	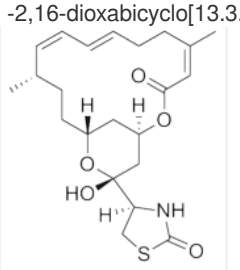
Molecular Formula	$C_{22}H_{31}NO_5S$
CAS Number	76343-93-6
PubChem identifier	445420
SMILES	C[C@H]/1CC[C@@H]2C[C@H](C[C@@](O2)([C@@H]3CSC(=O)N3)O)OC(=O)/C=C(CC/C=C/C=C1)/C
InChi	InChI=1S/C22H31NO5S/c1-15-7-5-3-4-6-8-16(2)11-20(24)27-18-12-17(10-9-15)28-22(26,13-18)19-14-29-21(25)23-19/h3-5,7,11,15,17-19,26H,6,8-10,12-14H2,1-2H3,(H,23,25)/b4-3+,7-5-,16-11-/t15-,17-,18-,19+,22-/m1/s1
InChiKey	DDVBPZROPPMBLW-IZGXTMSKSA-N

References

Actin-latrunculin A structure and function. Differential modulation of actin-binding protein function by latrunculin A.

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