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Technical Data Sheet

Jasplakinolide

Catalog Number :1022476

RUO: For Research Use Only. Not for use in diagnostic procedures.

Product Information

Synonyms: Jaspamide, NSC 613009

Chemical Name: (4R,7R,10S,13S,15E,17R,19S)-7-[(2-bromo-1H-indol-3-yl)methyl]-4-(4-hydroxyphenyl)-8,10,13,15,17,19-hexamethyl-1-oxa-5,8,11-triazacyclononadec-15-ene-2,6,9,12-tetrone

Molecular Formula: $C_{36}H_{45}BrN_4O_6$

Molecular Weight: 709.7

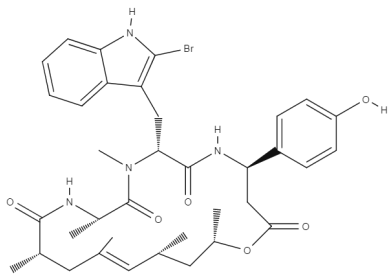
CAS Number: 102396-24-7

Purity: ≥98%

Applications: FA

Formulation: Crystalline solid

Storage: Product should be kept at -20°C.



Description

Jasplakinolide is a naturally occurring cyclic peptide that is a potent inducer of actin polymerization and was originally isolated from marine sponge Jaspis johnstoni. It is cell permeable and exhibits fungicidal and anti-proliferative activity.

Preparation & Storage

Soluble in organic solvents such as ethanol and DMSO.

References

1.Bubb, M. R., Senderowicz, A. M., Sausville, E. A., Duncan, K. L., Korn, E. D. (1994). Jasplakinolide, a cytotoxic natural product, induces actin polymerization and competitively inhibits the binding of phalloidin to F-actin.;Journal of Biological Chemistry,;269(21), 14869-14871.

2. Bubb, M. R., Spector, I., Beyer, B. B., Fosen, K. M. (2000). Effects of jasplakinolide on the kinetics of actin polymerization an explanation for certain in vivo observations.;Journal of Biological Chemistry,;275(7), 5163-5170.

3. Holzinger, A. (2001). Jasplakinolide. In;Cytoskeleton Methods and Protocols;(pp. 109-120). Humana Press.

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