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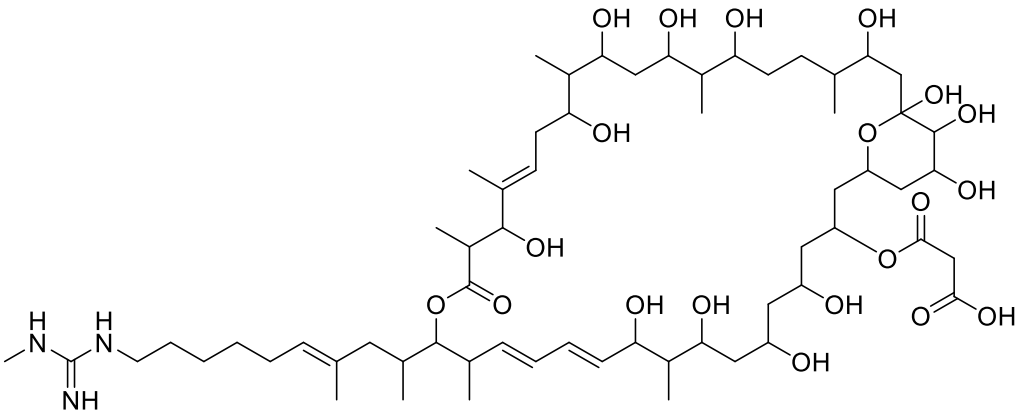
PRODUCT DATA SHEET

Malolactomycin C

Code No.: **BIA-M1979**

Pack sizes: **0.1 mg, 0.5 mg**



Synonyms : -

Specifications

CAS #	:	**189759-03-3**
Molecular Formula	:	**$C_{62}H_{109}N_3O_{20}$**
Molecular Weight	:	**1216.5**
Source	:	***Streptomyces* sp.**
Appearance	:	**White powder**
Purity	:	**>95% by HPLC**
Long Term Storage	:	**-20°C**
Solubility	:	**Soluble in methanol or DMSO.**

Application Notes

Malolactomycin C, produced by Streptomyces sp., is the N-demethyl analogue of the malolactomycin family, a 40-membered macrolide. Malolactomycin C has moderate activity against selected fungi, specifically Cladosporium, Botrytis, and Pyricularia. Its analogue, malolactomycin D, has been identified as a selective Ras signal inhibitor, preferentially inhibiting the anchorage-independent growth over anchorage-dependent growth of Ras-transformed NIH3T3 cells.

References

1. Malolactomycins C and D, new 40-membered macrolides active against Botrytis. Tanaka Y. et al. J Antibiot. 1997, 50, 194.
2. Malolactomycin D, a potent inhibitor of transcription controlled by the Ras responsive element, inhibits Ras-mediated transformation activity with suppression of MMP-1 and MMP-9 in NIH3T3 cells. Futamura M. et al. Oncogene 2001, 20, 6724.

For in vitro laboratory use only. Not for human or animal use.

Updated: 14 November 2025

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Building C, 28-54 Percival Road, Smithfield, NSW 2164, AUSTRALIA

Tel: 61 2 9757 4515 Fax: 61 2 9757 2586 Web: www.bioaustralis.com Email: info@bioaustralis.com