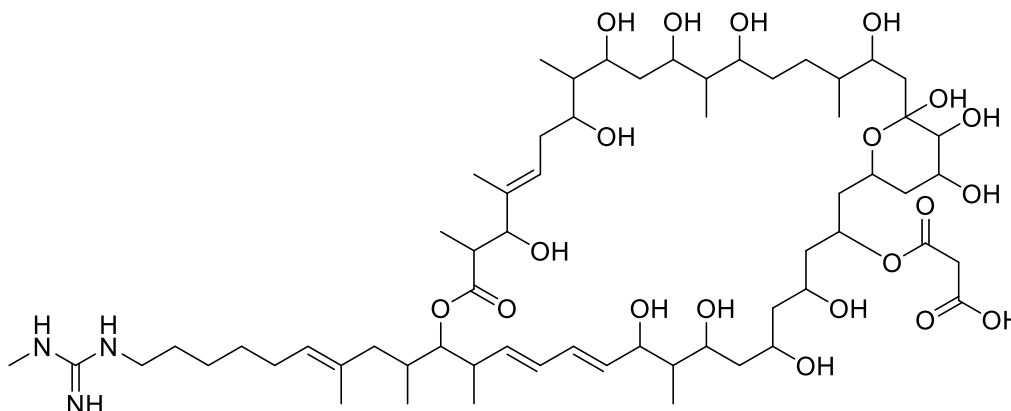


Malolactomycin C

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 ₃ O ₂₀
Molecular Weight	: 1216.54
Source	: <i>Streptomyces</i> 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.