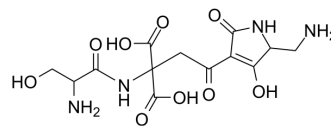


Malonomycin

Cat. No.:	HY-121405
CAS No.:	38249-71-7
Molecular Formula:	C ₁₃ H ₁₈ N ₄ O ₉
Molecular Weight:	374.3
Target:	Antibiotic; Parasite
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Malonomycin (Antibiotic K16) is an antibiotic with anti-protozoa and anti-trypansome activities. Malonomycin also shows anti-trypansome activity in vivo ^{[1][2]} .								
IC₅₀ & Target	Trypanosoma								
In Vitro	Malonomycin has antiprotozoal activity towards Trypanosoma congolense ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.								
In Vivo	Malonomycin (30 mg/kg; i.p., once) eliminates the infection status of trypanosoma infected-mice and shows no harmful effects with daily dose of 50 mg/kg ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.								
	<table border="1"> <tr> <td>Animal Model:</td> <td>Mice with Trypanosoma congolense infection^[2]</td> </tr> <tr> <td>Dosage:</td> <td>30 mg/kg</td> </tr> <tr> <td>Administration:</td> <td>Intraperitoneal injection; 30 mg/kg, once</td> </tr> <tr> <td>Result:</td> <td>Eliminated all trypanosomes from in the blood of infected mice.</td> </tr> </table>	Animal Model:	Mice with Trypanosoma congolense infection ^[2]	Dosage:	30 mg/kg	Administration:	Intraperitoneal injection; 30 mg/kg, once	Result:	Eliminated all trypanosomes from in the blood of infected mice.
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REFERENCES

- [1]. Emilio L. Ghisalberti. Bioactive Tetramic Acid Metabolites. Studies in Natural Products Chemistry. Volume 28, Part I, 2003, Pages 109-163.
- [2]. Ottens Hendrik and Vos Cornelis. Preparation of an antibiotic for the treatment of trypanosomiasis. NL6701356. 1967.

Caution: Product has not been fully validated for medical applications. For research use only.

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