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Produktinformation



Forschungsprodukte & Biochemikalien



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Diagnostik & molekulare Diagnostik



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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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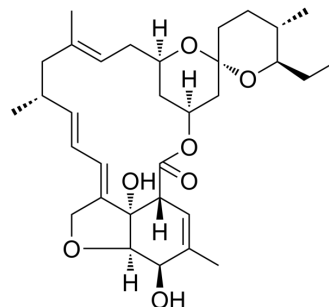
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Milbemycin A4

Cat. No.:	HY-126906
CAS No.:	51596-11-3
Molecular Formula:	C ₃₂ H ₄₆ O ₇
Molecular Weight:	542.7
Target:	P-glycoprotein; Antibiotic
Pathway:	Membrane Transporter/Ion Channel; Anti-infection
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (184.26 mM; Need ultrasonic)				
		Solvent	Mass		
	Preparing Stock Solutions	Concentration	1 mg	5 mg	10 mg
		1 mM	1.8426 mL	9.2132 mL	18.4264 mL
5 mM		0.3685 mL	1.8426 mL	3.6853 mL	
	10 mM	0.1843 mL	0.9213 mL	1.8426 mL	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (4.61 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	Milbemycin A4 inhibits P-glycoprotein activity, and reverses multidrug resistance of tumor cells. Milbemycins are a family of macrolide antibiotics with insecticidal and acaricidal activity ^[1] sup>[2].
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REFERENCES

- [1]. Li J, et al. Isolation and identification of new macrocyclic lactones from a genetically engineered strain *Streptomyces bingchenggensis* BCG60. *J Antibiot (Tokyo)*. 2017 Mar;70(3):297-300.
- [2]. Takiguchi Y, et al. Milbemycins, a new family of macrolide antibiotics: fermentation, isolation and physico-chemical properties. *J Antibiot (Tokyo)*. 1980 Oct;33(10):1120-7.

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

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