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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Leucomycin

Cat. No.:	HY-N7112		
CAS No.:	1392-21-8		
Target:	Bacterial; Antibiotic		
Pathway:	Anti-infection		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month

Leucomycin

SOLVENT & SOLUBILITY

In Vitro	DMSO : 110 mg/mL (Need ultrasonic) H ₂ O : < 0.1 mg/mL (insoluble)
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.75 mg/mL (Infinity mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: 2.75 mg/mL (Infinity mM); Suspended solution; Need ultrasonic Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.75 mg/mL (Infinity mM); Clear solution

BIOLOGICAL ACTIVITY

Description	Leucomycin (kitasamycin) is a macrolide antibiotic produced by <i>Streptomyces kitasatoensis</i> with broad-spectrum antibacterial activity ^{[1][2][3][4][5]} .
IC₅₀ & Target	Macrolide

REFERENCES

- Iwata K, et al. Studies on the in vitro Antibacterial Activity of Leucomycin[J]. The Journal of Antibiotics, Series A, 1962, 15(6): 258-265.
- PACHTMAN EA, et al. Leucomycin; a new antibiotic. Am J Pharm Sci Support Public Health. 1958 Oct;130(10):342-4.
- Vézina C, et al. Biosynthesis of kitasamycin (leucomycin) by leucine analog-resistant mutants of *Streptomyces kitasatoensis*. Antimicrob Agents Chemother. 1979 May;15(5):738-46.
- La T, et al. Testing the efficacy of kitasamycin for use in the control and treatment of swine dysentery in experimentally infected pigs. Aust Vet J. 2019 Sep 17.
- Hassan AB, et al. Pharmacokinetics and tissue residues of kitasamycin in healthy and diseased broilers. Dtsch Tierarztl Wochenschr. 1990 Aug;97(8):315-7.

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

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