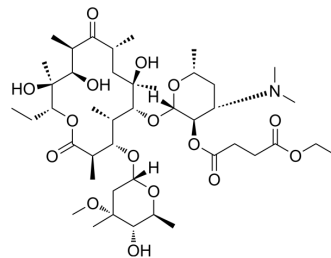


Erythromycin Ethylsuccinate

Cat. No.:	HY-B0957		
CAS No.:	1264-62-6		
Molecular Formula:	C ₄₃ H ₇₅ NO ₁₆		
Molecular Weight:	862.05		
Target:	Bacterial; Autophagy; HIV; Antibiotic		
Pathway:	Anti-infection; Autophagy		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 50 mg/mL (58.00 mM)
 Ethanol : ≥ 33.33 mg/mL (38.66 mM)
 * "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	1.1600 mL	5.8001 mL	11.6003 mL
	5 mM	0.2320 mL	1.1600 mL	2.3201 mL
	10 mM	0.1160 mL	0.5800 mL	1.1600 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
 Solubility: ≥ 2.5 mg/mL (2.90 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
 Solubility: ≥ 2.5 mg/mL (2.90 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Erythromycin Ethylsuccinate is an antibiotic useful for the treatment of a number of bacterial infections, has an antimicrobial spectrum similar to or slightly wider than that of penicillin. Erythromycin Ethylsuccinate has antiviral activity against HIV-1.

IC₅₀ & Target

HIV-1

REFERENCES

- [1]. Gustafsson A, et al. The association of erythromycin ethylsuccinate with acute colitis in horses in Sweden. *Equine Vet J.* 1997 Jul;29(4):314-8.
- [2]. Feng YC, et al. Construction of universal quantitative models for determination of roxithromycin and erythromycin ethylsuccinate in tablets from different manufacturers using near infrared reflectance spectroscopy. *J Pharm Biomed Anal.* 2006 May 3;41(2):373-84.
- [3]. Komuro I, et al. Erythromycin derivatives inhibit HIV-1 replication in macrophages through modulation of MAPK activity to induce small isoforms of C/EBPbeta. *Proc Natl Acad Sci U S A.* 2008 Aug 26;105(34):12509-14.
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Caution: Product has not been fully validated for medical applications. For research use only.

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