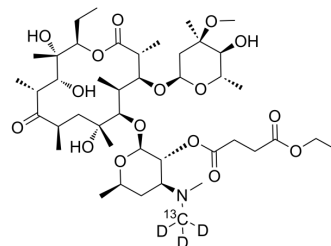


Erythromycin ethylsuccinate-¹³C,₃D₃

Cat. No.:	HY-B0957S
Molecular Formula:	C ₄₂ ¹³ CH ₇₂ D ₃ NO ₁₆
Molecular Weight:	866.06
Target:	Bacterial; Autophagy; HIV; Antibiotic; Isotope-Labeled Compounds
Pathway:	Anti-infection; Autophagy; Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Erythromycin ethylsuccinate- ¹³ C, ₃ D ₃ is the ¹³ C- and deuterium labeled Erythromycin Ethylsuccinate. 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.
In Vitro	Stable heavy isotopes of hydrogen, carbon, and other elements have been incorporated into drug molecules, largely as tracers for quantitation during the drug development process. Deuteration has gained attention because of its potential to affect the pharmacokinetic and metabolic profiles of drugs ^[69] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother.* 2019;53(2):211-223.
- [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]. 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.
- [4]. 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.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA