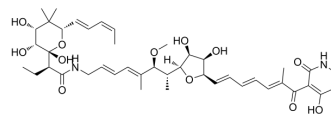


Kirromycin

Cat. No.:	HY-122386
CAS No.:	50935-71-2
Molecular Formula:	C ₄₃ H ₆₀ N ₂ O ₁₂
Molecular Weight:	796.94
Target:	Bacterial; Antibiotic
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

Kirromycin (Mocimycin) is an antibiotic produced by *Streptomyces collinus* Tu 365. Kirromycin is a bacterial protein synthesis inhibitor that immobilizes elongation factor Tu (EF-Tu) on the elongating ribosome^{[1][2]}.

REFERENCES

[1]. H Wolf, et al. Kirromycin, an inhibitor of protein biosynthesis that acts on elongation factor Tu. *Proc Natl Acad Sci U S A*. 1974 Dec;71(12):4910-4.

[2]. Lian N Olsthoorn-Tieleman, et al. Elongation factor Tu3 (EF-Tu3) from the kirromycin producer *Streptomyces ramocissimus* Is resistant to three classes of EF-Tu-specific inhibitors. *J Bacteriol*. 2007 May;189(9):3581-90.

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

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