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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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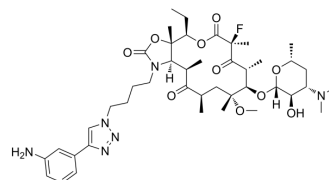
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Solithromycin (Standard)

Cat. No.:	HY-17593R
CAS No.:	760981-83-7
Molecular Formula:	C ₄₃ H ₆₅ FN ₆ O ₁₀
Molecular Weight:	845.01
Target:	Bacterial; Antibiotic
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Solithromycin (Standard) is the analytical standard of Solithromycin. This product is intended for research and analytical applications. Solithromycin (CEM-101) is an orally bioavailable, effective antimicrobial agent, with IC ₅₀ s for inhibition of cell viability, protein synthesis, and growth rate are 7.5 ng/mL, 40 ng/mL, and 125 ng/mL for <i>Streptococcus pneumoniae</i> , <i>Staphylococcus aureus</i> , and <i>Haemophilus influenzae</i> , respectively. Solithromycin binds to the large 50S subunit of the ribosome and inhibits protein biosynthesis ^[1] .
IC₅₀ & Target	Bacteria ^[1]

REFERENCES

- [1]. Rodgers W, et al. Solithromycin inhibition of protein synthesis and ribosome biogenesis in *Staphylococcus aureus*, *Streptococcus pneumoniae*, and *Haemophilus influenzae*. *Antimicrob Agents Chemother*. 2013 Apr;57(4):1632-1637.
- [2]. Kobayashi Y, et al. A novel macrolide solithromycin exerts superior anti-inflammatory effect via NF-κB inhibition. *J Pharmacol Exp Ther*. 2013 Apr;345(1):76-84.

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

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