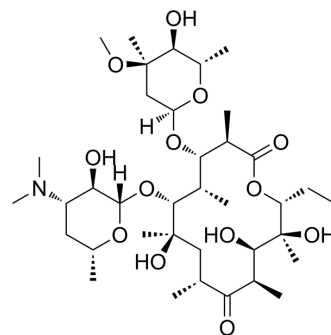


Erythromycin (Standard)

Cat. No.:	HY-B0220R
CAS No.:	114-07-8
Molecular Formula:	C ₃₇ H ₆₇ NO ₁₃
Molecular Weight:	733.93
Target:	Bacterial; Antibiotic; DNA/RNA Synthesis
Pathway:	Anti-infection; Cell Cycle/DNA Damage
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



SOLVENT & SOLUBILITY

In Vitro

DMSO : \geq 100 mg/mL (136.25 mM)
 H₂O : 1 mg/mL (1.36 mM; ultrasonic and warming and heat to 80°C)
 * " \geq " means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent		1 mg	5 mg	10 mg
	Concentration	Mass			
	1 mM		1.3625 mL	6.8126 mL	13.6253 mL
	5 mM		0.2725 mL	1.3625 mL	2.7251 mL
	10 mM		0.1363 mL	0.6813 mL	1.3625 mL

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

BIOLOGICAL ACTIVITY

Description

Erythromycin (Standard) is the analytical standard of Erythromycin. This product is intended for research and analytical applications. Erythromycin is a macrolide antibiotic produced by actinomycete *Streptomyces erythreus* with a broad spectrum of antimicrobial activity. Erythromycin binds to bacterial 50S ribosomal subunits and inhibits RNA-dependent protein synthesis by blockage of transpeptidation and/or translocation reactions, without affecting synthesis of nucleic acid [1][2]. Erythromycin also exhibits antitumor and neuroprotective effect in different fields of research [3][4].

IC₅₀ & Target

Macrolide

CUSTOMER VALIDATION

- Acta Pharm Sin B. 2021 Mar 11.
- Theranostics. 2022 Jan 1;12(3):1187-1203.

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- EBioMedicine. 2022 Apr;78:103943.
 - Biofabrication. 2023 Aug 8.
 - Chemosphere. 2019 Jun;225:378-387.

See more customer validations on www.MedChemExpress.com

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

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