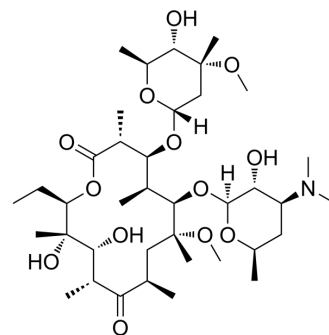


Clarithromycin (Standard)

Cat. No.:	HY-17508R
CAS No.:	81103-11-9
Molecular Formula:	C ₃₈ H ₆₉ NO ₁₃
Molecular Weight:	747.95
Target:	Bacterial; Cytochrome P450; Autophagy; Antibiotic
Pathway:	Anti-infection; Metabolic Enzyme/Protease; Autophagy
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



SOLVENT & SOLUBILITY

In Vitro

DMSO : 33.33 mg/mL (44.56 mM; Need ultrasonic)

Solvent	Mass	Concentration		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	1.3370 mL	6.6849 mL	13.3699 mL
	5 mM	0.2674 mL	1.3370 mL	2.6740 mL
	10 mM	0.1337 mL	0.6685 mL	1.3370 mL

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

BIOLOGICAL ACTIVITY

Description

Clarithromycin (Standard) is the analytical standard of Clarithromycin. This product is intended for research and analytical applications. Clarithromycin has a broad spectrum of antimicrobial activity. Clarithromycin inhibits the CYP3A4-catalyzed triazolam alpha-hydroxylation with the IC₅₀ (K_i) value of 56 (43) μM^[2]. Clarithromycin significantly inhibits the HERG potassium current^[3]. Clarithromycin affects the autophagic flux by impairing the signaling pathway linking hERG1 and PI3K^[4].

IC₅₀ & Target

CYP3

Macrolide

CUSTOMER VALIDATION

- Acta Pharm Sin B. 2021 Mar 11.
- Water Res. 2023 May 21, 120110.
- Chemosphere. 2019 Jun;225:378-387.

-
- Cell Prolif. 2021 Jan;54(1):e12953.
 - J Med Chem. 2021 Mar 11;64(5):2725-2738.

See more customer validations on www.MedChemExpress.com

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