

Product Name: Rifabutin Revision Date: 01/10/2021 Product Data Sheet

Rifabutin

Cat. No.:	B2126	
CAS No.:	72559-06-9	
Formula:	C46H62N4O11	
M.Wt:	847	
Synonyms:		
Target:	Microbiology & Virology	
Pathway:	Antibiotic	
Storage:	Store at -20°C	
	-0	

Solvent & Solubility

	≥42.35 mg/mL in DN	\geq 42.35 mg/mL in DMSO; insoluble in H2O; \geq 47.5 mg/mL in EtOH			
In Vitro	Preparing Stock Solutions	Mass Solvent Concentration	1mg	5mg	10mg
	Slock Solutions	1 mM	1.1806 mL	5.9032 mL	11.8064 mL
	el0	5 mM	0.2361 mL	1.1806 mL	2.3613 mL
	PER	10 mM	0.1181 mL	0.5903 mL	1.1806 mL

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

Biological Activity

Shortsummary

anti-TB(tuberculosis) medicine

IC₅₀ & Target

In Vitro

Cell Viability Assay	Constant Sector
Preparation method:	The solubility of this compound in DMSO is > 42.4 mg/mL. General tips for
	obtaining a higher concentration: Please warm the tube at 37 °C for 10 minute
	and/or shake it in the ultrasonic bath for a while. Stock solution can be store
	below - 20 °C for several months.
Reacting conditions:	0.1 or 0.5 μM (MIC90s)
Applications:	Pretreating M. abscessus subspecies abscessus and bolletii with 0.5 µ
	1 www.apexbt.com

		Rifabutin, as well as M. abscessus subspecies massiliense with 0.1 μ M Rifabutin did not affect the MIC90s, which implied that M. abscessus did not have inducible Rifabutin resistance mechanisms. In addition, at the doses		
		which are 2-fold of the MIC90s, Rifabutin showed similar or higher bactericidal activities than Clarithromycin.		
	Animal experiment	a19		
In Vivo	Animal models:	Mice inoculated with tachyzoites or cysts of Toxoplasma gondii		
	Dosage form:	50, 100, 200, 300 or 400 mg/kg; p.o.; q.d., for 10 days		
	Applications:	In mice inoculated with tachyzoites or cysts of Toxoplasma gondii, 300 mg/kg and 400 mg/kg Rifabutin protected all infected mice against death. At the doses of 100 mg/kg and 200 mg/kg, Rifabutin protected 80% and 10 ~ 40% of the infected mice against death, respectively. However, at the dose of 50 mg/kg		
		Rifabutin only induced a delay in time to death.		
	Other notes:	Please test the solubility of all compounds indoor, and the actual solubility may slightly differ with the theoretical value. This is caused by an experimental system error and it is normal.		
	Contraction of the second			

Product Citations

See more customer validations on www.apexbt.com.

References

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[1]. Aziz DB, Low JL, Wu ML, Gengenbacher M, Teo JWP, Dartois V, Dick T. Rifabutin Is Active against Mycobacterium abscessus Complex. Antimicrob Agents Chemother. 2017 May 24;61(6).

[2]. Araujo FG, Slifer T, Remington JS. Rifabutin is active in murine models of toxoplasmosis. Antimicrob Agents Chemother. 1994 Mar;38(3):570-5.

Caution

FOR RESEARCH PURPOSES ONLY.

NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

Specific storage and handling information for each product is indicated on the product datasheet. Most APExBIO products are stable under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage temperature. Shortterm storage of many products are stable in the short-term at temperatures that differ from that required for long-term storage. We ensure that the product is shipped under conditions that will maintain the quality of the reagents. Upon receipt of the product, follow the storage recommendations on the product data sheet.













