

Rifampicin

Product Information

Product Name	Cat#	Specification
Rifampicin	60234ES03	1 g
	60234ES08	5 g

Product Description

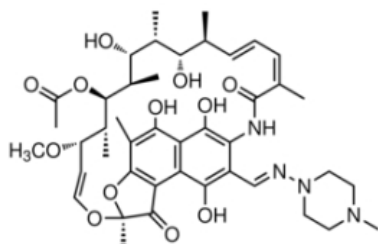
Rifampicin is a semi synthetic compound obtained from *Amiclatopsis rifamycinica*. It is an effective broad-spectrum antibacterial antibiotic. Rifampicin can highly bind to DNA dependent RNA polymerase (RNAP) and inhibit the activity of RNAP, thus inhibiting the protein synthesis of host bacteria. Rifampicin can also be used to treat tuberculosis and effectively inhibit intracellular pathogens, such as *Mycobacterium M. tuberculosis* and *M. leprae*. To avoid drug tolerance, rifampicin should be used in combination with other antibiotics.

50 mg rifampicin can be dissolved in 1 mL DMSO to prepare a storage solution of 50 mg/mL. after sub packaging, it can be frozen at -20°C. When in use, it can be diluted to the working solution concentration with deionized water. The common working solution concentration is 10-50 ug/mL.

Product Properties

Synonyms	Rifadin, Tubocin, Rimactan, Rimactane, Rifaldazine; Rif
CAS#	13292-46-1
Molecular Weight	882.94 g/mol
Molecular Formula	C ₄₃ H ₅₈ N ₄ O ₁₂
Appearance	Orange red flake crystal or brick red crystal powder
Purity	≥ 99%
Loss on drying, %	≤ 1.0
pH	4.5 - 6.5
Solubility	100 mg/mL (DMSO), DMF, methanol (16 mg/mL, 25°C), chloroform (349 mg/mL, 25°C), acetone (14 mg/mL, 25°C), slightly soluble in water.

Structure



Shipping and Storage

The product component is shipped with ice pack and can be stored at -20°C for 2 years.

Cautions

- 1) For your safety and health, please wear experimental clothes and disposable gloves.
- 2) This product is only used for scientific research and is not allowed to be used on people.