

Product Data Sheet

Cat # ABT-040-02
 Cat # ABT-040-01

Azithromycin (>98% pure)
Azithromycin (>98% pure)

Size: 250mg
Size: 1g

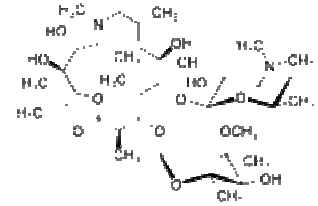
General Information

Azithromycin is an azalide, a subclass of macrolide antibiotics. Azithromycin prevents bacteria from growing by interfering with their protein synthesis. It binds to the 50S subunit of the bacterial ribosome, thus inhibiting translation of mRNA. Nucleic acid synthesis is not affected has relatively broad but shallow antibacterial activity. It inhibits some Gram-positive bacteria, some Gram-negative bacteria, and many atypical bacteria.

Azithromycin is one of the world's best-selling antibiotics, sold in the United States under the name Zithromax as well as under generic labels Bactizith in Pakistan. It is derived from erythromycin, with a methyl-substituted nitrogen atom incorporated into the lactone ring, thus making the lactone ring 15-membered. Azithromycin is somewhat more potent against certain bacterial species than erythromycin, but its widespread popularity arises primarily from its slow elimination from the body, which allows many infections to be treated with 3-5 days of once-daily administration, compared to 3-4 times a day for up to two weeks for erythromycin.

Azithromycin is used to treat or prevent certain bacterial infections, most often those causing middle ear infections, tonsillitis, throat infections, laryngitis, bronchitis, pneumonia, Typhoid, and sinusitis, respiratory infections, skin infections, ear infections, and sexually transmitted diseases. In recent years it has primarily been used to prevent bacterial infections in infants and those with weaker immune systems. It is also effective against certain urinary tract infections and venereal diseases, such as non-gonococcal urethritis, chlamydia, gonorrhea and cervicitis.

Most common side effects are diarrhea (5%), nausea (3%), abdominal pain (3%), and vomiting. It is on the World Health Organization's List of Essential Medicines, a list of the most important medications needed in a basic health system.



Molecular Formula:
(C₃₈H₇₂N₂O₁₂)
Molecular Weight:
748.984 g/mol

Test Items	Standard Required	Results
Appearance	white crystalline powder	Complies
Melting point(°C)	113-115°C	Complies
Identification	1) Infrared light absorption 2) HPLC	Complies
Specific optical rotation	-45°~-49°	-47°
pH	9.0~11.0	10.1
Water	4.0-5.0%	4.5%
Heavy metals	≤25 ppm	<25 ppm
Residue on ignition	≤0.3%	0.05%
Assay (based on anhydrous substance)	≥945~ 1030 ug/mg	971 U/mg
Conclusion	The product is tested in accordance with standard requirements.	

ABT-040-02

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