

Pretomanid (PA-824)

Catalog No. NR-59591

For research use only. Not for use in humans.

Contributor and Manufacturer:

Mylan Laboratories Limited, Hyderabad, Telangana, India

Product Description:

Pretomanid [PA-824; (S)-PA-824; Dovprela[®]] is a novel antimycobacterial used in treating multidrug-resistant tuberculosis (MDR-TB) and is a member of the nitroimidazooxazine class (whereas delamanid is a member of the nitroimidazooxazole class). Its mechanism of action is complex and has not been fully elucidated. Under aerobic conditions, pretomanid appears to inhibit *Mycobacterium tuberculosis* (*M. tuberculosis*) cell wall biosynthesis by inhibiting the synthesis of mycolic acid; under anaerobic conditions, it generates reactive nitrogen species. Pretomanid is effective in both actively replicating *M. tuberculosis* and in dormant bacilli (both bactericidal and sterilizing activity). It is generally used together with bedaquiline and linezolid.^{1,2,3}

Material Provided:

Each vial contains approximately 40 mg of pretomanid.

Packaging/Storage:

NR-59591 was packaged in plastic cryovials and is provided on refrigerated bricks. NR-59591 should be stored at room temperature protected from light and moisture immediately upon arrival. The vial should be centrifuged prior to opening.

Citation:

Acknowledgment for publications should read “The following reagent was obtained through BEI Resources, NIAID, NIH: Pretomanid (PA-824), NR-59591.”

Biosafety Level: 1

Appropriate safety procedures should always be used with this material. Laboratory safety is discussed in the following publication: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control and Prevention, and National Institutes of Health. [Biosafety in Microbiological and Biomedical Laboratories \(BMBL\)](#). 6th ed. Washington, DC: U.S. Government Printing Office, 2020.

Disclaimers:

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References:

1. Conradie, F., et al. “Bedaquiline-Pretomanid-Linezolid Regimens for Drug-Resistant Tuberculosis.” *N. Engl. J. Med.* 387 (2022): 810-823. PubMed: 36053506.
2. Gils, T., et al. “Pretomanid for Tuberculosis: A Systematic Review.” *Clin. Microbiol. Infect.* 28 (2022): 31-42. PubMed: 34400340.
3. Committee for Medicinal Products for Human Use (CHMP). (2020). “Pretomanid FGK: EPAR - Public Assessment Report.” [European Medicines Agency](#).

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