

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 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). Current Edition. Washington, DC: U.S. Government Printing Office.

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](https://www.ema.europa.eu/en/medicines/humans/epar/pretomanid-fgk).

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