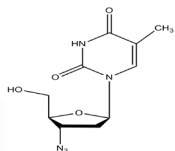


**PRODUCT: Azidothymidine****ALTERNATE NAME:** 3'-Azido-3'-deoxythymidine; AZT; Zidovudine**CATALOG #:** B1113-10, 50**AMOUNT:** 10 mg, 50 mg**STRUCTURE:****MOLECULAR FORMULA:** C<sub>10</sub>H<sub>13</sub>N<sub>5</sub>O<sub>4</sub>**MOLECULAR WEIGHT:** 267.24**CAS NUMBER:** 30516-87-1**APPEARANCE:** White solid**SOLUBILITY:** DMSO (>25 mg/ml) or H<sub>2</sub>O (>10 mg/ml)**PURITY:** ≥98% by HPLC**STORAGE:** Store at -20°C. Protect from air and light.

**DESCRIPTION:** Azidothymidine is a nucleoside reverse transcriptase inhibitor that, following triphosphorylation by thymidine kinase, potently blocks replication of HIV (EC<sub>50</sub> = 3 nM) with low cytotoxicity (CC<sub>50</sub> > 5 μM). Displays 100-fold selectivity for HIV reverse transcriptase over DNA polymerase α. Suppresses HIV-1 replication and enhances cell viability in HIV-1 infected T cells. Antiretroviral agent. Also decreases CRISPR-mediated homology directed repair (HDR) efficiency. AZT is a nucleoside analog HIV reverse transcriptase inhibitor that failed to inhibit SARS-CoV-2 replication *in vitro*.

**REFERENCES:** Yu, C., *et al.* (2015). *Cell Stem Cell* **16**, 142-147.**HANDLING:** Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.**RELATED PRODUCTS:**

Acyclovir (Cat. No. 2200-50, 250)

5-Azacytidine (Cat. No. 1854-50, 250)

6-Azauridine (Cat. No. B1024-100, 500)

(-)-6-Azauridine 2', 3', 5'-triacetate (Cat. No. B1025-50, 250)

Clemizole (Cat. No. 2481-10, 50)

GSK1349572 (Cat. No. 2288-5, 25)

Ribavirin (Cat. No. 2199-10, 50)

T-705 (Favipiravir) (Cat. No. 2778-5, 25)

Valacyclovir hydrochloride (Cat. No. 2201-10, 50)

**USAGE:** **FOR RESEARCH CH USE ONLY! Not to be used in humans**