
Azidothymidine (AZT)

产品编号: D50900

CAS: 30516-87-1

分子式: C₁₀H₁₃N₅O₄

纯度: ≥98%

InChi: InChi=1S/C₁₀H₁₃N₅O₄/c1-5-3-15(10(18)12-9(5)17)8-2-6(13-14-11)7(4-16)19-8/h3,6-8,16H,2,4
H2,1H3,(H,12,17,18)/t6-,7+,8+/m0/s1

InChi Key: HBOMLICNUCNMMY-XLPZGREQSA-N

Smiles: CC1=CN([C@H]2C[C@H](N=[N+]=[N-])[C@@H](CO)O2)C(=O)NC1=O

外观: 固体粉末

作用通路: CRISPR/Cas9

溶解性: DMSO up to 100 mM, Water up to 50 mM

保存条件: Store in dry, dark place for one year.

产品介绍: Azidothymidine (AZT) is a selective, orally bioavailable and brain penetrant reverse transcriptase inhibitor. It has 100-fold selectivity for HIV reverse transcriptase over DNA polymerase α . It can suppress HIV-1 replication and enhance cell viability in a HIV-1 infected T cell line. It can also suppress growth of a multiple myeloma (MM) cell line and reduces the growth of MM tumor xenografts in mice. In recent studies, AZT can enhance CRISPR-mediated sequence-specific gene knockout via NHEJ in human induced pluripotent stem cells (iPSCs) and other cell types.