
5-Azacytidine

产品编号: D50801

CAS: 320-67-2

分子式: C₈H₁₂N₄O₅

纯度: ≥98%

InChi: InChi=1S/C₈H₁₂N₄O₅/c9-7-10-2-12(8(16)11-7)6-5(15)4(14)3(1-13)17-6/h2-6,13-15H,1H₂,(H₂,9,11,16)/t3-,4-,5-,6-/m1/s1

InChi Key: NMUSYJAQQFHJEW-KVTDHHQDSA-N

Smiles: NC1=NC(=O)N(C=N1)[C@@H]1O[C@H](CO)[C@@H](O)[C@H]1O

外观: 固体粉末

作用通路: Antibiotic

溶解性: H₂O : 33.33 mg/mL (136.49 mM; Need ultrasonic); DMSO : ≥31 mg/mL (126.95 mM)

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

产品介绍: 5-Azacytidine is a classic DNA methyltransferase inhibitor. It incorporates into DNA forming covalent adducts with cellular DNMT, depleting enzyme activity. Azacitidine is widely used to demonstrate the correlation between loss of methylation in specific gene regions and activation of the associated genes. It can also improve the efficiency of reprogramming of stem cells, induce differentiation of mesenchymal stem cells into cardiomyocytes.