
Actinomycin D

产品编号: D50409

CAS: 50-76-0

保存条件: store at -20°C (Powder) .

in DMSO or others solvent store at 2-4°C for two weeks, at -20°C for six months.

产品介绍: CAS: 50-76-0

分子式: C₆₂H₈₆N₁₂O₁₆

分子量: 1255.44

MDL: MFCD00005033

纯度: >98 %

外观/性状: 红色或橘红色粉末或结晶

溶解性: DMSO : ≥ 27 mg/mL

靶点: RNA polymerase

产品描述: 放线菌素D (Actinomycin D) 可浓度依赖性的减少DNA的修复活性, IC₅₀值为0.42 μM。

放线菌素D (Actinomycin D) 是放线菌素中最重要的一种, 它是从链霉菌属的土壤细菌中分离出的一类多肽抗生素, 有抗癌活性, 具有抑制转录的能力。放线菌素D与双链和单链DNA结合, 通过与转录起始复合物中的DNA结合, 阻止RNA聚合酶对RNA链的延伸, 从而抑制DNA和RNA的合成。

PRODUCT SPECIFIC PUBLICATIONS

[IF=15.1] Chunlei Zhang. et al. mTORC1 Mediates Biphasic Mechano-Response to Orchestrate Adhesion-Dependent Cell Growth and Anoikis Resistance. ADV SCI. 2023 Dec;;2307206 Other ; . 38041494

[IF=14.5] Zhanzhan Xu. et al. DDX39A resolves replication fork-associated RNA-DNA hybrids to balance fork protection and cleavage for genomic stability maintenance. MOL CELL. 2024 Dec 19 ; . 39706185

[IF=14.3] Jing-si Guo. et al. DHPS-Mediated Hypusination Regulates METTL3 Self-m6A-Methylation Modification to Promote Melanoma Proliferation and the Development of Novel Inhibitors. ADV SCI. 2024 Jul;;2402450 Other ; . 38952061

[IF=7.3] Jiankang Wang. et al. WTAP-mediated m6A modification of Hmgb2 contributes to spermatogenic damage induced by PM2.5 exposure. ENVIRON POLLUT. 2025 Apr;;370:125896 ; . 39988248

[IF=7.2] Li Si-qi. et al. SNHG4-mediated PTEN destabilization confers oxaliplatin resistance in colorectal cancer cells by inhibiting ferroptosis. APOPTOSIS. 2024 Apr;;1-14 Other ; . 38573492