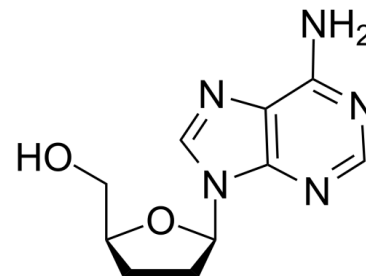


Data Sheet

Product Name:	2',3'-Dideoxyadenosine
Cat. No.:	CS-W014157
CAS No.:	4097-22-7
Molecular Formula:	C ₁₀ H ₁₃ N ₅ O ₂
Molecular Weight:	235.24
Target:	HIV
Pathway:	Anti-infection
Solubility:	H ₂ O : 100 mg/mL (425.10 mM; Need ultrasonic); DMSO : 100 mg/mL (425.10 mM; Need ultrasonic)



BIOLOGICAL ACTIVITY:

2',3'-Dideoxyadenosine is an inhibitor of **HIV** replication^[1]. Antiretroviral activity^[1]. Antiviral efficacy^[1]. IC₅₀ & Target:HIV^[1] **In Vitro:** 2',3'-Dideoxyadenosine inhibits HIV-1 and simian immunodeficiency virus (SIV) in MT-4 cells with EC₅₀s of 5.27 and 5.3 μM, respectively. 2',3'-Dideoxyadenosine inhibits HIV-1 and HIV-2 in human T-lymphocyte CEM cells with EC₅₀s of 4 μM and 8 μM, respectively. 2',3'-Dideoxyadenosine inhibits HIV-1 and HIV-2 in Molt 4/C8 cells with EC₅₀s of 4 μM and 5.5 μM, respectively. 2',3'-Dideoxyadenosine inhibits HIV-1 and HIV-2 in C8166 cells with EC₅₀s of 17 μM and 22 μM, respectively. 2',3'-Dideoxyadenosine inhibits murine sarcoma virus (MSV) in C3H/3T3 cells with an EC₅₀ of 24 μM^[1].

References:

[1]. Balzarini J, et al. Conversion of 2',3'-dideoxyadenosine (ddA) and 2',3'-didehydro-2',3'-dideoxyadenosine (d4A) to their corresponding arylxyphosphoramidate derivatives markedly potentiates their activity against human immunodeficiency virus and hepatitis B virus. FEBS Lett. 1997 Jun 30;410(2-3):324-8.

CAIndexNames:

Adenosine, 2',3'-dideoxy-

SMILES:

OC[C@@H]1CC[C@H](N2C(N=CN=C3N)=C3N=C2)O1

Caution: Product has not been fully validated for medical applications. For research use only.

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