
Product Data Sheet

Product Name: 4'-Ethyne-2'-deoxyadenosine

Cat. No.: GC35130

Chemical Properties

Cas. No. 306305-07-7

SMILES OC[C@]1(C#C)[C@H](C[C@H](N2C=NC3=C(N=CN=C32)N)O1)OFormula $C_{12}H_{13}N_5O_3$ M.Wt 275.26

Solubility Soluble in DMSO Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice. All other available sizes: ship with RT, or blue ice upon request.

Structure **Background**

4'-Ethyne-2'-deoxyadenosine (4'-E-dA), a nucleoside reverse transcriptase (RT) inhibitor, is an antiretroviral agent which is potent against drug-resistant HIV variants, with an EC₅₀ of 98 nM in MT-4 cells for anti-HIV-1 activity[1]. EC₅₀: 98 nM (MT-4 cells)[1].

[1]. Ohru H, et al. 4'-C-substituted-2'-deoxynucleosides: a family of antiretroviral agents which are potent against drug-resistant HIV variants. *Curr Drug Targets Infect Disord.* 2001 May;1(1):1-10.

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

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