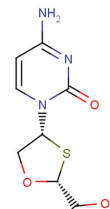


Apricitabine

Chemical Properties

CAS No.:	160707-69-7
Formula:	C ₈ H ₁₁ N ₃ O ₃ S
Molecular Weight:	229.26
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



Biological Description

Description	Apricitabine (SPD754; AVX754) shows promising antiretroviral efficacy, good tolerability and a low propensity for resistance selection in antiretroviral-naïve HIV infection[2]. Apricitabine (SPD754; AVX754), the (-) enantiomer of 2'-deoxy-3'-oxa-4'-thiocytidine (dOTC), is a highly selective and orally active HIV-1 reverse transcriptase (RT) inhibitor ($K_i=0.08 \mu\text{M}$). It also inhibits DNA polymerases α , β , and γ with K_i value of $300 \mu\text{M}$, $12 \mu\text{M}$, and $112.25 \mu\text{M}$, respectively[1].
Targets(IC ₅₀)	HIV-1: None

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.362 mL	21.809 mL	43.619 mL
5 mM	0.872 mL	4.362 mL	8.724 mL
10 mM	0.436 mL	2.181 mL	4.362 mL
50 mM	0.087 mL	0.436 mL	0.872 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. de Muys JM, et al. Anti-human immunodeficiency virus type 1 activity, intracellular metabolism, and pharmacokinetic evaluation of 2'-deoxy-3'-oxa-4'-thiocytidine. *Antimicrob Agents Chemother*. 1999 Aug;43(8):1835-44.
2. Cahn P, et al. Efficacy and tolerability of 10-day monotherapy with apricitabine in antiretroviral-naïve, HIV-infected patients. *AIDS*. 2006 Jun 12;20(9):1261-8.

Inhibitors · Natural Compounds · Compound Libraries

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