

Ethynylcytidine

Catalog No: tcsc0006185

Available Sizes

Size: 5mg

Size: 10mg

Size: 25mg

Specifications

CAS No:

180300-43-0

Formula:

 $\mathsf{C}_{11}\mathsf{H}_{13}\mathsf{N}_3\mathsf{O}_5$

Pathway: Cell Cycle/DNA Damage

Target: Nucleoside Antimetabolite/Analog

Purity / Grade:

Solubility:

DMSO : 83.3 mg/mL (311.70 mM; Need ultrasonic and warming)

Alternative Names: ECyD;TAS-106;3'-C-Ethynylcytidine

Observed Molecular Weight:

267.24

Product Description

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Ethynylcytidine is a new **nucleoside antimetabolite**.

IC50 & Target: nucleoside antimetabolite^[1]

In Vitro: The IC₅₀ values of Ethynylcytidine in the five human tumors with 4, 24 and 72 h exposure range from 0.114 to 1.032 μ M, 0.015 to 0.067 μ M, and 0.008 to 0.058 μ M, respectively. These results suggest that the cytotoxicity of Ethynylcytidine tends to become stronger as the exposure time becomes longer. The differences in IC₅₀ values between the 24 and 72 h exposure times are not large, and Ethynylcytidine appeares to show sufficiently potent cytotoxicity at the 24 h exposure time in all 5 human tumors. Even at the 4 h exposure time, Ethynylcytidine clearly shows potent cytotoxicity with IC₅₀ values at submicromolar concentrations in 4 of the 5 human tumors^[1].

In Vivo: In both OCUM-2MD3 and LX-1 xenografts, tumor regression is noted and a very potent antitumor effect with an tumor growth inhibition rate (IR) on day 15 of approximately 90% or even higher is observed at the minimum toxic doses of Ethynylcytidine (TAS-106) on all three administration schedules. In particular, administration of Ethynylcytidine at 6 mg/kg once weekly exhibits a marked tumor shrinking effect with an IR of 98% against the LX-1 tumor. While Ethynylcytidine treatment on an either 3 or 5 times weekly schedule has a potent antitumor effect with an IR of approximately 85%, the IR of Ethynylcytidine once weekly is less than 60% and its antitumor effect is rather weak^[1].



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