

Stavudine

Catalog No: tcsc1872



Available Sizes

Size: 100mg

Size: 500mg



Specifications

CAS No:

3056-17-5

Formula:

$C_{10}H_{12}N_2O_4$

Pathway:

Anti-infection;Autophagy;Anti-infection

Target:

Reverse Transcriptase;Autophagy;HIV

Purity / Grade:

>98%

Solubility:

DMSO : ≥ 47 mg/mL (209.62 mM)

Alternative Names:

d4T

Observed Molecular Weight:

224.21

Product Description

Stavudine is a nucleoside analog that inhibits reverse transcriptase and has in vitro activity against HIV.

Target: HIV RT; NRTIs

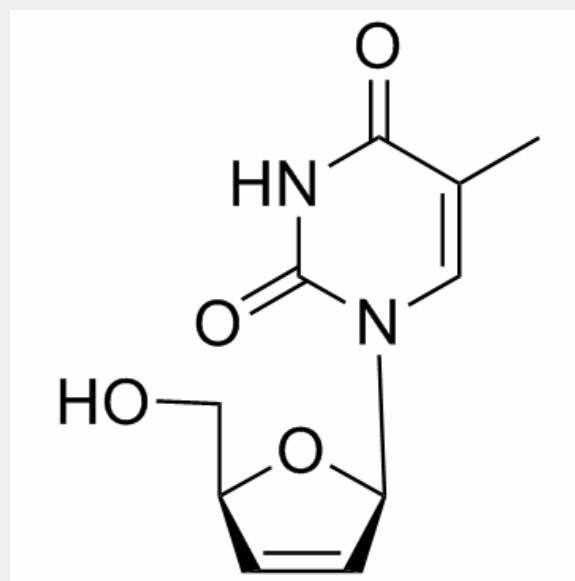
Stavudine is a dideoxynucleoside analog that inhibits reverse transcriptase and has in vitro activity against HIV. Stavudine is an analog of thymidine. It is phosphorylated by cellular kinases into active triphosphate. Stavudine triphosphate inhibits the HIV reverse transcriptase by competing with natural substrate, thymidine triphosphate. It also causes termination of DNA synthesis by incorporating into it [1].

Mice were treated for 2 weeks with stavudine d4T (500 mg/kg/day), L-carnitine (200 mg/kg/day) or both drugs concomitantly. Body fatness was assessed by dual energy X-ray absorptiometry, and investigations were performed in plasma, liver, muscle and WAT. D4T reduced the gain of body adiposity, WAT leptin, whole body FAO and plasma ketone bodies, and increased liver triglycerides and plasma aminotransferases with mild ultrastructural abnormalities in hepatocytes [2].

Clinical indications: HIV-1 infection

FDA Approved Date: June 24, 1994

Toxicity: peripheral neuropathy; lipodystrophy



All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!