
Product Data Sheet

Product Name: 2'-Deoxy- β -L-uridine

Cat. No.: GC67384

Chemical Properties

Cas. No. 31501-19-6

Formula $C_9H_{12}N_2O_5$ M.Wt 228.2Solubility Storage Store at $-20^{\circ}C$

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

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

Structure **Background**

2'-Deoxy- β -L-uridine is a nucleoside analogue and a specific substrate for the viral enzyme, shows no stereospecificity against herpes simplex 1 (HSV1) thymidine kinase (TK). 2'-Deoxy- β -L-uridine exerts antiviral activity via the interaction of 5'-triphosphates with the viral DNA polymerase^{[1][2]}.

[1]. Spadari S, et al. L-thymidine is phosphorylated by herpes simplex virus type 1 thymidine kinase and inhibits viral growth. J Med Chem. 1992 Oct 30;35(22):4214-20.

[2]. Lin TS, et al. Design and synthesis of 2',3'-dideoxy-2',3'-didehydro-beta-L-cytidine (beta-L-d4C) and 2',3'-dideoxy 2',3'-didehydro-beta-L-5-fluorocytidine (beta-L-Fd4C), two exceptionally potent inhibitors of human hepatitis B virus (HBV) and potent inhibitors of human immunodeficiency virus (HIV) in vitro. J Med Chem. 1996 Apr 26;39(9):1757-9.

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

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