

Product Data Sheet

Product Name: Valnivudine

Cat. No.: GC61368

Chemical Properties

Cas. No. 956483-02-6

SMILES O=C1N=C2C(C=C(C3=CC=C(C=C3)CCCC)O2)=CN1[C@]4([H])O[C@@H]([C@H](C4)O)COC([C@@H](N)C(C)C)=O

Formula $C_{27}H_{35}N_3O_6$ M.Wt 497.58

Solubility 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 size: ship with RT , or blue ice upon request.

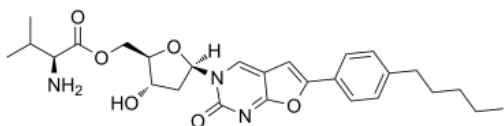
Caution: Product has not been fully validated for medical applications. For research use only.

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Address: 10292 Central Ave. #205, Montclair, CA, USA

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Structure



Background

Valnivudine (FV-100 free base), a prodrug of CF-1743, is an orally active anti-herpes zoster (HZ) nucleoside analogue. CF-1743, a bicyclic nucleoside analog (BCNA), has highly specific antiviral activity against varicella-zoster virus (VZV). Valnivudine is rapidly and extensively converted to CF-1743 in vivo[1][2].

In vitro cytotoxicity studies in normal human primary hepatocytes, keratinocytes, and rapidly dividing HepG2 cells, Valnivudine (FV-100 free base) demonstrates mean 50% cytotoxic concentration values of >10 μ M[2]. CF-1743 (compound 4f) has anti-varicella-zoster virus (VZV) activity in VZV OKA (EC₅₀=0.3 nM), VZV YS (EC₅₀=0.1 nM) in HEL cell[3].

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[1]. Nathan B Price, et al. Progress in the development of new therapies for herpesvirus infections. Curr Opin Virol. 2011 Dec;1(6):548-54. [2]. Helen S Pentikis, et al. Pharmacokinetics and safety of FV-100, a novel oral anti-herpes zoster nucleoside analogue, administered in single and multiple doses to healthy young adult and elderly adult volunteers. Antimicrob Agents Chemother. 2011 Jun;55(6):2847-54. [3]. C McGuigan, et al. Highly potent and selective inhibition of varicella-zoster virus by bicyclic fuoropyrimidine nucleosides bearing an aryl side chain. J Med Chem. 2000 Dec 28;43(26):4993-7.

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