

## **Product** Data Sheet

## Fozivudine tidoxil

Cat. No.: HY-126781 CAS No.: 141790-23-0 Molecular Formula:  $C_{35}H_{64}N_5O_8PS$ 

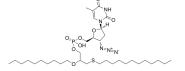
Molecular Weight: 745.95

Target: HIV; DNA/RNA Synthesis

Pathway: Anti-infection; Cell Cycle/DNA Damage

Storage: Please store the product under the recommended conditions in the Certificate of

Analysis.



## **BIOLOGICAL ACTIVITY**

Description	Fozivudine tidoxil (BM-211290) is an orally active thioether lipid-zidovudine (ZDV) conjugate with anti-HIV activity. Fozivudine tidoxil, a member of the NRTI family of agent, is incorporated into the newly synthesized strand of DNA during intracellular viral replication and irreversibly binds viral RT which disrupts viral reverse-transcription <sup>[1][2]</sup> . Fozivudine tidoxil is a click chemistry reagent, it contains an Azide group and can undergo copper-catalyzed azide-alkyne cycloaddition reaction (CuAAc) with molecules containing Alkyne groups. Strain-promoted alkyne-azide cycloaddition (SPAAC) can also occur with molecules containing DBCO or BCN groups.				
IC <sub>50</sub> & Target	HIV				
In Vitro	Fozivudine tidoxil (BM-211290) is a member of the nucleoside analogue reverse transcriptase inhibitor (NRTI) family $^{[1]}$ . MCE has not independently confirmed the accuracy of these methods. They are for reference only.				
In Vivo	Fozivudine tidoxil (BM-211290; 45 mg/kg; PO; twice daily; one day before FIV challenge for a total of six weeks) is effective at lowering plasma- and cell-associated viremia at two weeks post-FIV infection <sup>[1]</sup> .  MCE has not independently confirmed the accuracy of these methods. They are for reference only.				
	Animal Model:	Specific pathogen-free cats at 6 months of ${\sf age}^{[1]}$			
	Dosage:	45 mg/kg			
	Administration:	PO; twice daily; one day before FIV challenge for a total of six weeks			
	Result:	Effective at lowering plasma- and cell-associated viremia at two weeks post-feline immunodeficiency virus (FIV) infection with a trend toward lower plasma- and cell-associated viremia at four and six weeks post-infection (PI).			

## **REFERENCES**

[1]. Michelle M Miller, et al. Administration of Fozivudine Tidoxil as a Single-Agent Therapeutic During Acute Feline Immunodeficiency Virus Infection Does Not Alter Chronic Infection. Viruses. 2012 Jun;4(6):954-62.

2]. P M Girard, et al. Phase II Pl 1000 Mar 1;23(3):227-35.	lacebo-Controlled Trial of Foz	zivudine Tidoxil for HIV Infection:	Pharmacokinetics, Tolerability, and Efficacy. J Ac	quir Immune Defic Syndr.
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