## AzddMeC

®

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Cat. No.: CAS No.: Molecular Formula: Molecular Weight: Target: Pathway:	HY-105268 87190-79-2 C <sub>10</sub> H <sub>14</sub> N <sub>8</sub> O <sub>3</sub> 266.26 HIV; Reverse Transcriptase; Nucleoside Antimetabolite/Analog Anti-infection: Cell Cycle/DNA Damage	$ \begin{array}{c}                                     $
Target: Pathway: Storage:	HIV; Reverse Transcriptase; Nucleoside Antimetabolite/Analog Anti-infection; Cell Cycle/DNA Damage 4°C, sealed storage, away from moisture	$H_2N$
	* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)	

## SOLVENT & SOLUBILITY

	Solvent Mass Concentration	1 mg	5 mg	10 mg
Preparing Stock Solu	1 mM	3.7557 mL	18.7786 mL	37.5573 mL
	5 mM	0.7511 mL	3.7557 mL	7.5115 mL
	10 mM	0.3756 mL	1.8779 mL	3.7557 mL

<b>BIOLOGICAL ACTIV</b>	ТҮ		
Description	AzddMeC (CS-92) is an antiviral nucleoside analogue and a potent potent, selective and orally active HIV-1 reverse transcriptase and HIV-1 replication inhibitor. In HIV-1-infected human PBM cells and HIV-1-infected human macrophages, the EC <sub>50</sub> values of AzddMeC are 9 nM and 6 nM, respectively <sup>[1][2]</sup> . AzddMeC 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-2	HIV-1 9 nM (EC50, Human PBM cells)	HIV-1 6 nM (EC50, Human macrophages)
In Vitro	AzddMeC (CS-92) is also effect inhibited, and no effect is obs triphosphate of AzddMeC with 9.3 nM) <sup>[1]</sup> . MCE has not independently co	tive against HIV-2 in lymphocytes erved against HSV type 1 and typ n HIV-1 reverse transcriptase indi onfirmed the accuracy of these m	a. The replication of Friend murine virus is only weakly be 2 and coxsackievirus B4. The interaction of the 5'- cated competitive inhibition (the inhibition constant, Kis, is nethods. They are for reference only.

## Product Data Sheet

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The pharmacokinetics of AzddMeC are characterized following intravenous and oral administration of 60 mg/kg of the compound to male rhesus monkeys. 3'-azido-3'-deoxythymidine (AZT) is a major metabolite of AzddMeC in monkeys. AzddMeC concentrations in serum declined rapidly in a biexponential fashion with the terminal half-life ranging from 0.5 to 1.3 hr. Renal excretion of unchanged nucleoside and metabolic deamination yielding AZT are the primary routes of AzddMeC clearance. The oral bioavailability is 26%<sup>[2]</sup>. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

## REFERENCES

[1]. R F Schinazi, et al. Antiretroviral Activity, Biochemistry, and Pharmacokinetics of 3'-azido-2',3'-dideoxy-5-methylcytidine. Ann N Y Acad Sci. 1990;616:385-97.

[2]. Boudinot FD, et al. Pharmacokinetics and metabolism of 3'-azido-2',3'-dideoxy-5-methylcytidine in rhesus monkeys. Drug Metab Dispos. 1993;21(5):855-860.

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

 Tel: 609-228-6898
 Fax: 609-228-5909
 E-mail: tech@MedChemExpress.com

 Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA