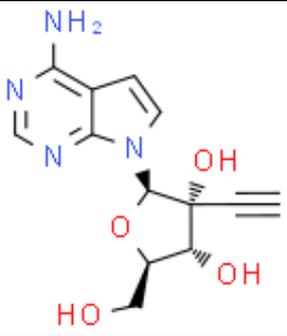


### Product Data Sheet

Cas No.:	1044589-82-3	Cat. No.:	PL03059
Product Name:	NITD008		
Product synonym:	7-脱氮-2'-C-乙炔腺苷		
Chemical name:	NITD008		
MF:	C13H14N4O4	FW:	290.275
Purity:	≥98%	Batch No.:	-
Storage:			
Structural formula:			
λmax:	-	Formulation:	-
Solubility :			
SMILES :	<chem>O[C@@]1(C#C)[C@H](N2C=CC3=C(N)N=CN=C32)O[C@H](CO)[C@H]1O</chem>		
InChI Code:	-		
InChI Key:			
<b>WARNING This product is not for human or veterinary use.</b>			

### Product Description

NITD008是一种有效的和选择性的黄病毒 (flaviviruses) 抑制剂, 抑制登革热病毒2型 (Dengue Virus Type 2 (DENV-2)) 的 EC<sub>50</sub> 值为0.64 μM。

生物活性	NITD008 is a potent and selective flaviviruse inhibitor which can inhibit Dengue Virus Type 2 (DENV-2) with an EC 50 of 0.64 μM.
IC50 & Target[1][2]	EC50: 0.64 μM (DENV-2)
体外研究(In Vitro)	NITD008 potently inhibits other, including Dengue virus (DENV), West Nile virus, yellow fever virus, and Poissan virus. NITD008 inhibits DENV-2 in a dose-responsive manner, with an EC50 value of 0.64 μM; treatment with 9 μM compound reduces viral titer by >104-fold. NITD008 also inhibits a luciferase-reporting replicon of hepatitis C virus (HCV, genotype 1b), a member from the genus Hepacivirus, with an EC50 value of 0.11 μM. has not independently confirmed the accuracy of these methods. They are for reference only.

体内研究(In Vivo)	NITD008 is orally bioavailable and has good pharmacokinetic properties. NITD008 exhibits the best pharmacokinetic parameters when formulated using 6 N of HCl (1.5 equimolar amount), 1 N of NaOH (pH adjusted to 3.5), and 100 mM citrate buffer (pH 3.5). Following i.v. injection, NITD008 has a high volume of distribution (3.71 L/kg) and a low systemic clearance (31.11 mL/min per kg), resulting in a long elimination half-life ( $t_{1/2} = 4.99$ h). After p.o. dosing, NITD008 is rapidly absorbed (time of peak plasma concentration=0.5 h), with a maximal plasma concentration of 3 $\mu$ M and bioavailability of 48%. Treatment of the mice immediately after viral infection with 1 mg/kg of NITD008 does not reduce mortality, but treatment with 3 mg/kg partially protects and treatment with $\geq 10$ mg/kg completely protects the infected mice from death. NITD008 can suppress peak viremia, decrease
包装储存	Powder -20°C 3 years; 4°C 2 years
溶解度数据	In Vitro: DMSO : $\geq 50$ mg/mL (172.25 mM)配制储备液