SZABO SCANDIC

Part of Europa Biosite

Produktinformation

- Forschungsprodukte & Biochemikalien
- Zellkultur & Verbrauchsmaterial
- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!

Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

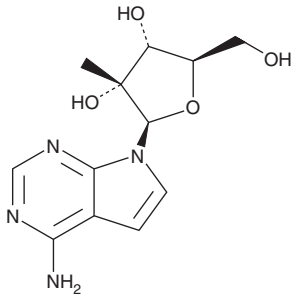
linkedin.com/company/szaboscandic

PRODUCT INFORMATION

Lamevudine

Item No. 39925

CAS Registry No.:	443642-29-3
Formal Name:	7-(2-C-methyl-β-D-ribofuranosyl)-7H-pyrrolo[2,3-d]pyrimidin-4-amine
Synonyms:	7-Deaza-2′-C-methyladenosine, MK-0608
MF:	$C_{12}H_{16}N_4O_4$
FW:	280.3
Purity:	≥95%
Supplied as:	A solid
Storage:	-20°C
Stability:	≥4 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

Lamevudine is supplied as a solid. A stock solution may be made by dissolving the lamevudine in the solvent of choice, which should be purged with an inert gas. Lamevudine is slightly soluble (0.1-1 mg/ml) in DMSO.

Description

Lamevudine is an antiviral.[1] It selectively inhibits wild-type hepatitis C virus (HCV) non-structural protein 5BΔ55 (NS5BΔ55) over NS5BΔ55 harboring a serine-to-threonine substitution at residue 282 (NS5BΔ55^{S282T}; IC_{50}s = 0.07 and 25 µM, respectively). Lamevudine selectively inhibits replication of HCV replicons in wild-type HBI10A cells over HBI10A cells expressing NS5BΔ55^{S282T} (EC_{50}s = 0.3 and 10.1 µM, respectively). *In vitro*, it reduces the cytopathic effect of positive-strand RNA viruses in the families *Flaviviridae* (EC_{50}s = 0.3-15 µM) and *Picornaviridae* (EC_{50}s = 0.5-5.9 µM) but not viruses of the negative-strand RNA virus family *Paramyxoviridae*. It inhibits the cytopathic effect and reduces virus yields of the Zika virus strain MR766 in infected Vero cells (EC_{50}s = 20 and 9.6 µM, respectively).[2] It also reduces serum viral load and delays virus-induced morbidity and mortality in AG129 mice, which lack Ifn-α/β and Ifn-γ receptors, infected with Zika virus when administered at a dose of 50 mg/kg per day.

References

1. Olsen, D.B., Eldrup, A.B., Bartholomew, L., *et al.* A 7-deaza-adenosine analog is a potent and selective inhibitor of hepatitis C virus replication with excellent pharmacokinetic properties. *Antimicrob. Agents Chemother.* **48(10)**, 3944-3953 (2004).
2. Zmurko, J., Marques, R.E., Schols, D., *et al.* The viral polymerase inhibitor 7-deaza-2'-C-methyladenosine is a potent inhibitor of *in vitro* Zika virus replication and delays disease progression in a robust mouse infection model. *PLoS Negl. Trop. Dis.* **10(5)**, e0004695 (2016).

CAYMAN CHEMICAL
1180 EAST ELLSWORTH RD
ANN ARBOR, MI 48108 · USA
PHONE: [800] 364-9897
[734] 971-3335
FAX: [734] 971-3640
CUSTSERV@CAYMANCHEM.COM
WWW.CAYMANCHEM.COM