



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 Handels GmbH

Quellenstraße 110, A-1100 Wien

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

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

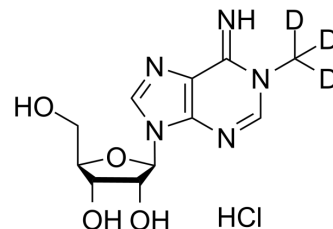
mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

1-Methyladenosine-d₃ hydrochloride

Cat. No.:	HY-113081AS
Molecular Formula:	C ₁₁ H ₁₃ D ₃ ClN ₅ O ₄
Molecular Weight:	320.75
Target:	Isotope-Labeled Compounds; Endogenous Metabolite; PPAR; Hedgehog
Pathway:	Others; Metabolic Enzyme/Protease; Cell Cycle/DNA Damage; Vitamin D Related/Nuclear Receptor; Stem Cell/Wnt
Storage:	-20°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 50 mg/mL (155.88 mM; Need ultrasonic and warming)

	Solvent Concentration	Mass	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM		3.1177 mL	15.5885 mL	31.1769 mL
	5 mM		0.6235 mL	3.1177 mL	6.2354 mL
	10 mM		0.3118 mL	1.5588 mL	3.1177 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

1-Methyladenosine-d₃ hydrochloride is the hydrochloride salt form of deuterium labeled 1-Methyladenosine (HY-113081). 1-Methyladenosine is an RNA modification that can serve as a tumor marker, with elevated levels in the body associated with cancer development. Following 1-methyladenosine methylation, upregulation of PPAR δ expression regulates cholesterol metabolism and activates Hedgehog signaling pathway, driving liver tumorigenesis^{[1][2][3][4]}.

REFERENCES

- [1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother*. 2019;53(2):211-216.
- [2]. Hauenschild R, et al. The reverse transcription signature of N-1-methyladenosine in RNA-Seq is sequence dependent. *Nucleic Acids Res*. 2015 Nov 16;43(20):9950-64.
- [3]. Banys K, et al. Effect of Genistein Supplementation on the Progression of Neoplasms and the Level of the Modified Nucleosides in Rats With Mammary Cancer. *In Vivo*. 2021 Jul-Aug;35(4):2059-2072.
- [4]. Wang Y, et al. N 1-methyladenosine methylation in tRNA drives liver tumourigenesis by regulating cholesterol metabolism[J]. *Nature communications*, 2021, 12(1): 6314.

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