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

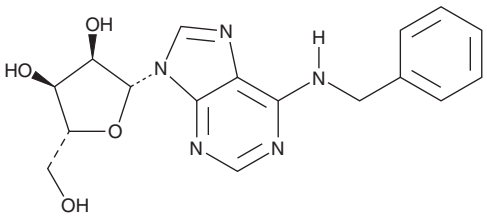
linkedin.com/company/szaboscandic

PRODUCT INFORMATION

DNPH1i

Item No. 38531

CAS Registry No.:	4294-16-0
Formal Name:	N-(phenylmethyl)-adenosine
Synonyms:	2'-Deoxynucleotide 5'-Phosphate N-hydrolase 1 Inhibitor, Benzyladenine Riboside, N^6-Benzyladenosine, NSC 70423
MF:	$C_{17}H_{19}N_5O_4$
FW:	357.4
Purity:	≥98%
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

DNPH1i is supplied as a solid. A stock solution may be made by dissolving the DNPH1i in the solvent of choice, which should be purged with an inert gas. DNPH1i is soluble in methanol.

Description

DNPH1i is an inhibitor of 2'-deoxynucleotide 5'-phosphate N-hydrolase 1 (DNPH1).[1] It inhibits DNPH1 activity toward the DNPH1 substrate 5-hydroxymethyl-2'-deoxyuridine (hmdU) when used at a concentration of 100 µM. DNPH1i (0.3 µM) reduces the viability of *BRCA1*-deficient SUM149 cells containing single-guide RNA against p53-binding protein 1 (sg53BP1) when used in combination with hmdU but not when used alone. It also reduces the viability of hematological cancer cells, including CEM, HL-60, K562, and RPMI-8226 cells (IC_{50}s = 1.3, 0.93, 5.9, and 4.6 µM, respectively), solid tumor cells, including MCF-7, HeLa, and HOS cells (IC_{50}s = 3.7, 1.9, and 13.6 µM, respectively), and G-361 malignant melanoma cells (IC_{50} = 15 µM) but also reduces viability of BJ fibroblasts (IC_{50} = 1.7 µM).[2]

References

1. Fugger, K., Bajrami, I., Silva Dos Santos, M., *et al.* Targeting the nucleotide salvage factor DNPH1 sensitizes *BRCA*-deficient cells to PARP inhibitors. *Science* **372(6538)**, 156-165 (2021).
2. Leysen, J.E., Gommeren, W., Van Gompel, P., *et al.* Receptor-binding properties *in vitro* and *in vivo* of ritanserin: A very potent and long acting serotonin-S2 antagonist. *Mol. Pharmacol.* **27(6)**, 600-611 (1985).

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