TOCRIS
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Print Date: Jun 26th 2020

Certificate of Analysis

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Product Name: **8-Azaadenosine** **Catalog No.: 6868** **Batch No.: 3**

CAS Number: 10299-44-2

IUPAC Name: 3-β-D-Ribofuranosyl-3*H*-1,2,3-triazolo[4,5-*d*]pyrimidin-7-amine

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_9H_{12}N_6O_4.H_2O$

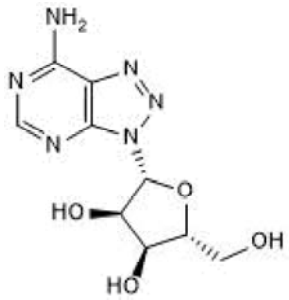
Batch Molecular Weight: 286.25

Physical Appearance: White solid

Solubility: DMSO to 100 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 100% purity

^{1}H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	37.76	4.93	29.36
Found	37.84	4.89	29.28

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Description:

ADAR1 (adenosine deaminases acting on double-stranded RNA) inhibitor. Reduces A-to-I editing activity in a leukemia cell line, restores let-7 and inhibits leukemia stem cells self-renewal in vitro.

Physical and Chemical Properties:

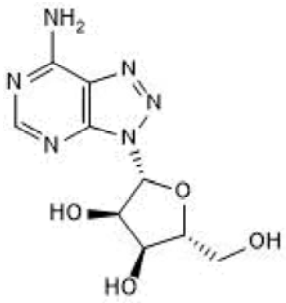
Batch Molecular Formula: $C_9H_{12}N_6O_4.H_2O$

Batch Molecular Weight: 286.25

Physical Appearance: White solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 100 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Zhang and Slack *et al* (2016) ADARs edit microRNAs to promote leukemic stem cell activity. Cell Stem Cell ***19*** 141. PMID: 27494666.

Zipeto *et al* (2016) ADAR1 activation drives leukemia stem cell self-renewal by impairing let-7 biogenesis. Cell Stem Cell ***19*** 177. PMID: 27292188.