TOCR a biotechne

Certificate of Analysis

www.tocris.com

Print Date: Dec 23rd 2021

Product Name: Decitabine

CAS Number: 2353-33-5 Catalog No.: 2624

Batch No.: 3

EC Number: 219-089-4

IUPAC Name:

4-Amino-1-(2-deoxy-β-D-erythro-pentofuranosyl)-1,3,5-triazin-2(1H)-one

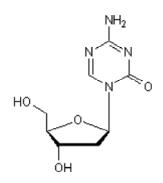
1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: Batch Molecular Weight: Physical Appearance: Solubility:

C₈H₁₂N₄O₄ 228.21 White solid water to 50 mM DMSO to 50 mM Store at +4°C

Storage:

Batch Molecular Structure:



Found

2. ANALYTICAL DATA

HPLC: ¹H NMR: Mass Spectrum: Microanalysis:

Shows 100% purity Consistent with structure Consistent with structure Carbon Hydrogen Nitrogen Theoretical 42.1 5.3 24.55

5.32

24.41

41.98

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TOCRIS a biotechne brand

Product Information

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Print Date: Dec 23rd 2021

Product Name: Decitabine

CAS Number: 2353-33-5

4-Amino-1-(2-deoxy-β-D-*erythro*-pentofuranosyl)-1,3,5-triazin-2(1*H*)-one

Description:

IUPAC Name:

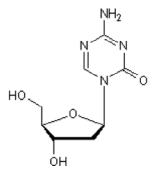
Decitabine is a cytosine analog that once incorporated into DNA acts as a suicide substrate for DNA methyltransferase. Inhibits DNA methyltransferase and results in DNA hypomethylation and activation of silent genes. Chemotherapeutic agent; suppresses growth of human tumor cell lines. Demethylates differentiationrelated genes; reverses embryonic stem cell differentiation. For more information about how Decitabine may be used, see our protocol: Highly Efficient Generation of CiPSCs from MEFs Please see product specific page on www.tocris.com for full description.

Physical and Chemical Properties:

Batch Molecular Formula: $C_8H_{12}N_4O_4$ Batch Molecular Weight: 228.21 Physical Appearance: White solid

Minimum Purity: ≥99%

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info: water to 50 mM

DMSO to 50 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).

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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:

Momparler (2005) Pharmacology of 5-aza-2'-deoxycytidine (decitabine). Semin.Hematol. 42 (Suppl 2) S9. PMID: 16015507.

Bender et al (1998) Inhibition of DNA methylation by 5-aza-2'-deoxycytidine supresses the growth of human tumour cell lines. Cancer Res. 58 95. PMID: 9426064.

Jackson-Grusby et al (1997) Mutagenicity of 5-aza-2'-deoxycytidine is mediated by the mammalian DNA methyltransferase. Proc.Natl.Acad.Sci.USA 94 4681.

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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