

Certificate of Analysis

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Product Name: ZYS 1

Catalog No.: 8921

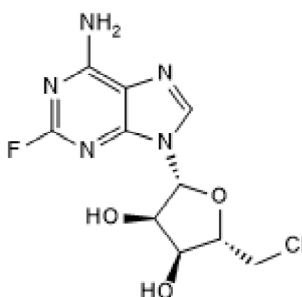
Batch No.: 1

CAS Number: 2734853-80-4

IUPAC Name: 5'-Chloro-5'-deoxy-2-fluoroadenosine

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₀H₁₁ClFN₅O₃.
Batch Molecular Weight: 303.68
Physical Appearance: White solid
Solubility: DMSO to 100 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.7% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	39.55	3.65	23.06
Found	39.1	3.67	22.88

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

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CAS Number: 2734853-80-4

IUPAC Name: 5'-Chloro-5'-deoxy-2-fluoroadenosine

Description:

ZYS 1 is an ADAR1 (adenosine deaminase acting on RNA 1) deaminase inhibitor (IC_{50} = 946 nM). In vitro, ZYS 1 exhibits antiproliferative activity against multiple prostate cancer cell lines. In vivo, ZYS 1 displays antitumor efficacy in prostate cancer cell-derived xenograft mouse model (20 mg and 40 mg per kg (body weight) intraperitoneally, with tumor growth inhibition rates of 66.68% and 81.83%, respectively).

Physical and Chemical Properties:

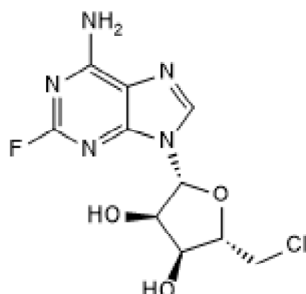
Batch Molecular Formula: $C_{10}H_{11}ClFN_5O_3$.

Batch Molecular Weight: 303.68

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. *Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

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:

Wang *et al* (2025) Targeting ADAR1 with a small molecule for the treatment of prostate cancer. *Nat.Cancer* **6** 474. PMID: 39930013.

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