

Product Name: Nelarabine

Catalog No.: 6359

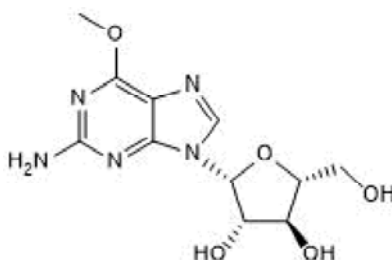
Batch No.: 1

CAS Number: 121032-29-9

IUPAC Name: 9-β-D-Arabinofuranosyl-6-methoxy-9H-purin-2-amine

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₁H₁₅N₅O₅
Batch Molecular Weight: 297.27
Physical Appearance: White solid
Solubility: DMSO to 100 mM
water to 10 mM with gentle warming
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98.8% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	44.44	5.09	23.56
Found	44.37	5.1	23.64

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

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Description:

Nucleoside analog. Metabolized by adenosine deaminase to active metabolite, arabinofuranosylguanine (ara-G). Inhibits DNA synthesis and induces apoptosis. Inhibits growth of human T cell lymphoblastic leukemia cells in vitro and in vivo.

Physical and Chemical Properties:

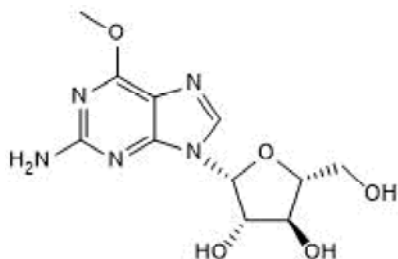
Batch Molecular Formula: C₁₁H₁₅N₅O₅

Batch Molecular Weight: 297.27

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



References:

Reilly and Kisor *et al* (2009) Profile of nelarabine: use in the treatment of T-cell acute lymphoblastic leukemia. *OncoTargets Ther.* **2** 219. PMID: 20616909.

Beesley *et al* (2007) *In vitro* cytotoxicity of nelarabine, clofarabine and flavopiridol in paediatric acute lymphoblastic leukaemia. *Br.J.Haematol.* **137** 109. PMID: 17391490.

Lambe *et al* (1995) 2-Amino-6-methoxypurine arabinoside: an agent for T-cell malignancies. *Cancer Res.* **55** 3352. PMID: 7614470 .

Storage: Store at +4°C

Solubility & Usage Info:

DMSO to 100 mM

water to 10 mM with gentle warming

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.

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