

Certificate of Analysis

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Product Name: RWJ 21757

Catalog No.: 2719

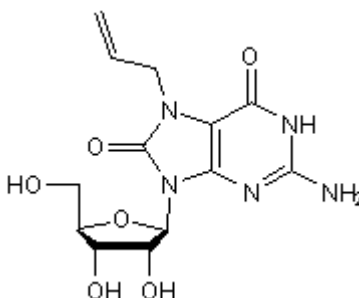
Batch No.: 2

CAS Number: 121288-39-9

IUPAC Name: 7,8-Dihydro-8-oxo-7-(2-propenyl)guanosine

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula:	C ₁₃ H ₁₇ N ₅ O ₆
Batch Molecular Weight:	339.3
Physical Appearance:	White solid
Solubility:	water to 20 mM DMSO to 75 mM
Storage:	Desiccate at +4°C
Batch Molecular Structure:	



2. ANALYTICAL DATA

HPLC:	Shows 97.5% purity
¹H NMR:	Consistent with structure
Mass Spectrum:	Consistent with structure
Optical Rotation:	[α] _D = -30.2 (Concentration = 1, Solvent = Water)

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

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IUPAC Name: 7,8-Dihydro-8-oxo-7-(2-propenyl)guanosine

Description:

Toll-like receptor 7 (TLR7) agonist; induces immune cell activation and increases cytokine production. Displays antitumor and antiviral activity in various animal models.

Physical and Chemical Properties:

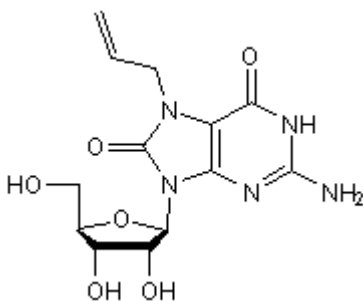
Batch Molecular Formula: C₁₃H₁₇N₅O₆

Batch Molecular Weight: 339.3

Physical Appearance: White solid

Minimum Purity: >97%

Batch Molecular Structure:



Storage: Desiccate at +4°C

Solubility & Usage Info:

water to 20 mM

DMSO to 75 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:

Goodman *et al* (1994) Loxoribine induces chronic lymphocytic leukemia B cells to traverse the cell cycle. *Blood* **84** 3457. PMID: 7949100.

Heil *et al* (2003) The toll-like receptor 7 (TLR7)-specific stimulus loxoribine uncovers a strong relationship within the TLR7, 8 and 9 subfamily. *Eur.J.Immunol.* **33** 2987. PMID: 14579267.

Lee *et al* (2003) Molecular basis for the immunostimulatory activity of guanine nucleoside analogs: activation of toll-like receptor 7. *Proc.Natl.Acad.Sci.USA* **100** 6646. PMID: 12738885.

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