

Certificate of Analysis

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Product Name: Anagrelide hydrochloride

Catalog No.: 2432

Batch No.: 2

CAS Number: 58579-51-4

IUPAC Name: 6,7-Dichloro-1,5-dihydroimidazo[2,1-*b*]quinazolin-2(3*H*)-one hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₀H₇Cl₂N₃O.HCl.H₂O

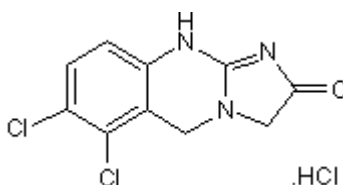
Batch Molecular Weight: 310.57

Physical Appearance: White solid

Solubility: DMSO to 10 mM

Storage: Desiccate at +4°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows >99.6% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	38.67	3.25	13.53
Found	38.53	3.17	13.25

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

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Description:

Potent type III phosphodiesterase (PDE3) inhibitor (IC_{50} = 36 nM). Inhibits platelet aggregation and produces potent thrombocytopenic effects via inhibition of megakaryocyte maturation.

Physical and Chemical Properties:

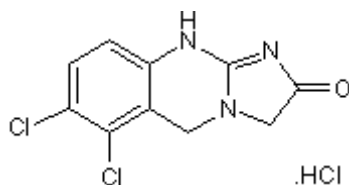
Batch Molecular Formula: $C_{10}H_7Cl_2N_3O \cdot HCl \cdot H_2O$

Batch Molecular Weight: 310.57

Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Desiccate at +4°C

Solubility & Usage Info:

DMSO to 10 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:

Gillespie (1988) Anagrelide: a potent and selective inhibitor of platelet cyclic AMP phosphodiesterase enzyme activity. *Biochem.Pharmacol.* **37** 2866. PMID: 2456068.

Mazur et al (1992) Analysis of the mechanism of anagrelide-induced thrombocytopenia in humans. *Blood* **79** 1931. PMID: 1562721.

Wang et al (2005) Comparison of the biological activities of anagrelide and its major metabolites in haematopoietic cell cultures. *Br.J.Pharmacol.* **146** 324. PMID: 16041400.

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