

Catalog # 10-1220

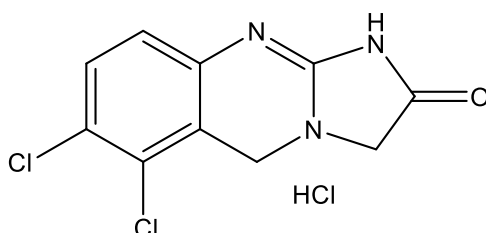
Anagrelide HCl

CAS# 58579-51-4

6,7-dichloro-1,5-dihydroimidazo[2,1-b]quinazolin-2(3H)-one hydrochloride

BL-4162A

Lot # X108763



Potent and selective phosphodiesterase (PDE3) inhibitor, $IC_{50}=36$ nM).¹ Inhibits platelet production by disrupting megakaryocyte maturation² via a mechanism which is independent of PDE3 inhibition³. Clinically useful agent for conditions requiring platelet lowering therapy.^{4,5}

- 1) Gillespie *et al.* (1988), *Anagrelide: a potent and selective inhibitor of platelet cyclic AMP phosphodiesterase enzyme activity*; *Biochem. Pharmacol.* **37** 2866
- 2) Mazur *et al.* (1992), *Analysis of the mechanism of anagrelide-induced thrombocytopenia in humans*; *Blood*, **79** 1931
- 3) Wang *et al.* (2005), *Comparison of the biological activities of anagrelide and its major metabolites in haematopoietic cell cultures*; *Br. J. Pharmacol.*, **146** 324
- 4) Barbui *et al.* (2012), *Front-line therapy in polycythemia vera and essential thrombocythemia*; *Blood Rev.*, **26** 205
- 5) Chen *et al.* (2012), *Platelet-lowering therapy with anagrelide as an adjuvant therapy for treatment of primary pulmonary neoplasm-associated extreme thrombocytosis*; *Jpn. J. Clin. Oncol.*, **42** 761

PHYSICAL DATA

Molecular Weight:	292.55
Molecular Formula:	C ₁₀ H ₇ Cl ₂ N ₃ O·HCl
Purity:	98% by HPLC
	NMR: (Conforms)
Solubility:	DMSO (up to 2.5 mg/ml)
Physical Description:	White solid
Storage and Stability:	Store as supplied desiccated at -20°C for up to 1 year from the date of purchase. Solutions in DMSO may be stored at -20°C for up to 3 months.

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