



LKT Laboratories, Inc.

Anagrelide

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Product Information

Product ID A5327

CAS No. 68475-42-3

Chemical Name 6,7-dichloro-5,10-dihydro-3H-imidazo[2,1-b]quinazolin-2-one

Synonym

Formula C₁₀H₇Cl₂N₃O

Formula Wt. FW 256.09

Melting Point 280° C

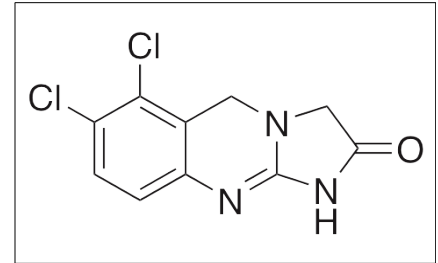
Purity ≥98%

Solubility

Store Temp Ambient

Ship Temp Ambient

Description Anagrelide is an imidazoquinazoline anti-platelet compound that inhibits platelet aggregation at high doses and decreases platelet activity at low doses. Anagrelide inhibits phosphodiesterase III (PDE3). Anagrelide also decreases expression of GATA-1 and FOG1, suppressing megakaryocytopoiesis; it shows benefit in the treatment of chronic myeloproliferative disorders such as thrombocythemia. In vitro, anagrelide inhibits thombopoietin-mediated cell differentiation.



Bulk quantities available upon request

Product ID	Size
A5327	10 mg
A5327	25 mg
A5327	100 mg

References Ahluwalia M, Donovan H, Singh N, et al. Anagrelide represses GATA-1 and FOG-1 expression without interfering with thrombopoietin receptor signal transduction. *J Thromb Haemost.* 2010 Oct;8(10):2252-61. PMID: 20586925.

McCarty JM, Melone PD, Simanis JP, et al. A preliminary investigation into the action of anagrelide: thrombopoietin-c-Mpl receptor interactions. *Exp Hematol.* 2006 Jan;34(1):87-96. PMID: 16413395.

Wang G, Franklin R, Hong Y, et al. Comparison of the biological activities of anagrelide and its major metabolites in haematopoietic cell cultures. *Br J Pharmacol.* 2005 Oct;146(3):324-32. PMID: 16041400.

Tefferi A, Silverstein MN, Petitt RM, et al. Anagrelide as a new platelet-lowering agent in essential thrombocythemia: mechanism of action, efficacy, toxicity, current indications. *Semin Thromb Hemost.* 1997;23(4):379-83. PMID: 9263355.

Caution: This product is intended for laboratory and research use only. It is not for human or drug use.