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SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

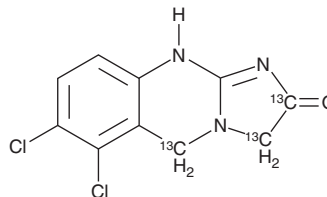
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PRODUCT INFORMATION



Anagrelide-¹³C₃ Item No. 33280

Formal Name: 6,7-dichloro-5,10-dihydroimidazo[2,1-b]quinazolin-2(3H)-one-2,3,5-¹³C₃
Synonyms: BL 4162A-¹³C₃, BMY 26538-01-¹³C₃
MF: C₇[¹³C]₃H₇Cl₂N₃O
FW: 259.1
Purity: ≥98%
Supplied as: A solid
Storage: -20°C
Stability: ≥2 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

Anagrelide-¹³C₃ is supplied as a solid. A stock solution may be made by dissolving the anagrelide-¹³C₃ in the solvent of choice, which should be purged with an inert gas. Anagrelide-¹³C₃ is soluble in DMSO.

Description

Anagrelide-¹³C₃ is intended for use as an internal standard for the quantification of anagrelide (Item No. 21411) by GC- or LC-MS. Anagrelide is an inhibitor of phosphodiesterase 3 (PDE3; IC₅₀ = 36 nM for the human platelet enzyme).¹ It inhibits thrombopoietin-induced megakaryocytopoiesis of isolated human CD34⁺ progenitor cells (IC₅₀ = 26 nM).² Anagrelide reduces platelet aggregation induced by ADP, collagen, thrombin, or arachidonic acid (Item Nos. 90010 | 90010.1 | 10006607) in isolated rabbit platelet rich-plasma (EC₅₀s = 0.31, 0.08, 0.18, and 0.1 µg/ml, respectively).³ It inhibits platelet thrombus formation in a dog model of electrically induced carotid artery thrombosis when administered at doses ranging from 0.5 to 5 mg/kg.⁴ Formulations containing anagrelide have been used in the treatment of thrombocythemia.

References

1. 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.* **146**(3), 324-332 (2005).
2. Hong, Y., Wang, G., Gutierrez del Arroyo, A., *et al.* Comparison between anagrelide and hydroxycarbamide in their activities against haematopoietic progenitor cell growth and differentiation: Selectivity of anagrelide for the megakaryocytic lineage. *Leukemia* **20**(6), 1117-1122 (2006).
3. Fleming, J.S. and Buyniski, J.P. A potent new inhibitor of platelet aggregation and experimental thrombosis, anagrelide (BL-4162A). *Thromb. Res.* **15**(3-4), 373-388 (1979).
4. Fleming, J.S. and Buyniski, J.P. Anagrelide. *New drugs annual: Cardiovascular drugs*. Scriabine, A., editor, Raven Press (1983).

WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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CAYMAN CHEMICAL

1180 EAST ELLSWORTH RD
ANN ARBOR, MI 48108 · USA

PHONE: [800] 364-9897
[734] 971-3335

FAX: [734] 971-3640

CUSTSERV@CAYMANCHEM.COM
WWW.CAYMANCHEM.COM