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Produktinformation

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- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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

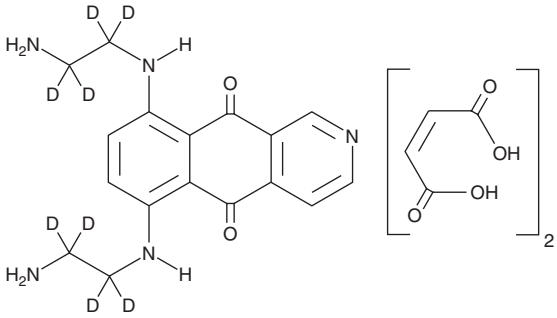
linkedin.com/company/szaboscandic

PRODUCT INFORMATION

Pixantrone-d_8 (maleate)

Item No. 33292

Formal Name:	6,9-*bis*((2-aminoethyl-1,1,2,2-d_4)amino) benzo[g]isoquinoline-5,10-dione, dimaleate
MF:	$C_{17}H_{11}D_8N_5O_2 \bullet 2C_4H_4O_4$
FW:	565.6
Chemical Purity:	≥95% (Pixantrone)
Deuterium Incorporation:	≥99% deuterated forms (d_1-d_8); ≤1% d_0
Supplied as:	A solid
Storage:	-20°C
Stability:	≥4 years



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

Laboratory Procedures

Pixantrone-d_8 (maleate) is intended for use as an internal standard for the quantification of pixantrone (Item No. 20055) by GC- or LC-MS. The accuracy of the sample weight in this vial is between 5% over and 2% under the amount shown on the vial. If better precision is required, the deuterated standard should be quantitated against a more precisely weighed unlabeled standard by constructing a standard curve of peak intensity ratios (deuterated *versus* unlabeled).

Pixantrone-d_8 (maleate) is supplied as a solid. A stock solution may be made by dissolving the pixantrone-d_8 (maleate) in the solvent of choice, which should be purged with an inert gas. Pixantrone-d_8 (maleate) is soluble in methanol and DMSO.

Description

Pixantrone is a DNA topoisomerase II inhibitor.[1] It induces SV40 DNA cleavage in the presence of mouse topoisomerase II and induces DNA single-strand breaks in NCI H187 cells in a concentration-dependent manner. Pixantrone is cytotoxic to L1210 leukemia cells as well as doxorubicin-sensitive and -resistant LoVo colon adenocarcinoma cells (IC_{50} = 0.01, 0.24, and 7.2 µg/ml, respectively).[2] It decreases disease severity in a rat model of myasthenia gravis induced by immunization with the *T. californica* acetylcholine receptor (AChR) when administered at a dose of 8.12 mg/kg once per week for six weeks.[3] Formulations containing pixantrone have been used in the treatment of non-Hodgkin B cell lymphoma.

References

1. De Isabella, P., Palumbo, M., Sissi, C., *et al.* Topoisomerase II DNA cleavage stimulation, DNA binding activity, cytotoxicity, and physico-chemical properties of 2-aza- and 2-aza-oxide-anthracenedione derivatives. *Mol. Pharmacol.* **48(1)**, 30-38 (1995).
2. Krapcho, A.P., Petry, M.E., Getahun, Z., *et al.* 6,9-Bis[(aminoalkyl)amino]benzo[g]isoquinoline-5,10-diones. A novel class of chromophore-modified antitumor anthracene-9,10-diones: Synthesis and antitumor evaluations. *J. Med. Chem.* **37(6)**, 828-837 (1994).
3. Marolda, R., Ruocco, C., Cordiglieri, C., *et al.* Differential targeting of immune-cells by Pixantrone in experimental myasthenia gravis. *J. Neuroimmunol.* **258(1-2)**, (2013).

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