



CERTIFICATE OF ANALYSIS

20 Martin Ross Avenue, North York, ON, M3J 2K8, CANADA
Tel: (416) 665-9696, Fax: (416) 665-4439
Email: orders.trc@lgcgroup.com Website: www.trc-canada.com

1. Identification

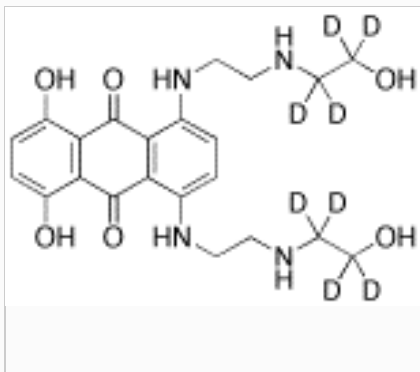
Catalogue Number: M373427

CAS Number: 1189974-82-0

Product: Mitoxantrone-d8

Synonym: 1,4-Dihydroxy-5,8-bis[[2-[(2-hydroxyethyl-d4)amino]ethyl]amino]-9,10-anthracenedione; 1,4-Bis[(2-(2-hydroxyethylamino-d4)ethyl)amino]-5,8-dihydroxyanthraquinone; DHAQ-d8; Dihydroxyanthraquinone-d8; Mitoxanthrone-d8; Mitozantrone-d8; Nimitoxantron-d8; Novantron-d8; Novantrone-d8; Ralenova-d8; NSC 279836-d8;

Structure:



Molecular Formula:

$C_{22}H_{20}D_8N_4O_6$

Molecular weight:

452.54

Source of Product:

Synthetic

Solubility:

DMSO (Slightly), Methanol (Slightly), Water (Slightly)

Lot Number: 3-KJN-171-2

Purity: 96%

Shipping Condition: This Product Is Stable To Be Shipped At Room Temperature

Storage Condition: -20°C

2. Warning

Warning 1:

Warning 2:

Warning 3:

3. Analytical Information

Tests:	Specifications:	Results:
Appearance	Dark Blue to Black Solid	Very Dark Blue to Black Solid
Elemental Analysis	Conforms	%C: 52.32, %H: 6.27, %N: 11.37
MS	Conforms to Structure	Conforms
NMR	Conforms to Structure	Conforms
Isotopic Purity	>95%	98.4% (d0 = 0.30%)
Water Content	Report Result	7.0% by Karl Fischer

Additional Information: N/A

Purity is based on the analytical results of the tests performed. NMR and Elemental Analysis (if available) may have an accuracy of $\pm 2\%$. Isotopic purity is based on mass distribution observed. The contents of the specifications are subject to change without advance notice, and the specification values displayed here are the most up to date values.

4. Signatures

Reviewed By	Reviewed By	C of A Approved By	Test Date	Retest Date
Henry Tieu	Toni Rantanen	Chanell Chu	9/29/2021	9/27/2031
				