



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

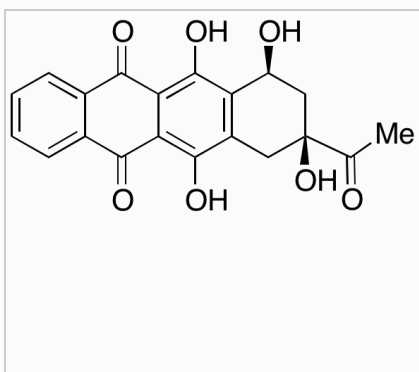
Catalogue Number: A189248

CAS Number: 60660-75-5

Product: (7S,9S)-9-Acetyl-6,7,9,11-tetrahydroxy-7,8,9,10-tetrahydro-5,12-naphthacenedione

Synonym: 5,12-Naphthacenedione, 9-acetyl-7,8,9,10-tetrahydro-6,7,9,11-tetrahydroxy-, (7S-cis)-; qa(7S,9S)-9-Acetyl-7,8,9,10-tetrahydro-6,7,9,11-tetrahydroxy-5,12-naphthacenedione; (+)-4-Demethoxydaunomycinone; (+)-Idarubicinone; 4-Demethoxydaunomycinone; Idarubicin aglycone; Idarubicinone; 4-demethoxydaunomycinone"4-demethoxydaunomycinone

Structure:



Molecular Formula:

C₂₀H₁₆O₇

Molecular weight:

368.34

Source of Product:

Synthetic

Solubility:

Chloroform (Slightly), DMSO (Slightly), Methanol (Slightly)

Lot Number: 22-DHL-131-1

Purity: 98%

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

Storage Condition: Inert atmosphere

2. Warning

Warning 1:

Warning 2:

Warning 3:

3. Analytical Information

Tests:	Specifications:	Results:
Appearance	Orange to Red Solid	Orange to Red Solid
NMR	Conforms to Structure	Conforms
HPLC Purity	Report Result	98.92% (254 nm)
MS	Conforms to Structure	Conforms
Specific Rotation	Report Result	+105.4° (c = 0.1, Dioxane)
Elemental Analysis	Conforms	%C: 63.86, %H: 4.38

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 ± 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
Nicole Yip	Toni Rantanen	Chanell Chu	8/9/2023	8/7/2027
				