Product Name: Daunorubicin hydrochloride
Catalog No.: 1467
Batch No.: 2
EC Number: 245-723-4
CAS Number: 23541-50-6
IUPAC Name: (8S,10S)-8-Acetyl-10-[(3-amino-2,3,6-trideoxy-α-L-lyxo-hexopyranosoyl)oxy]-7,8,9,10-tetrahydro-6,8,11-trihydroxy-1-methoxy-5,12-naphthacenedione hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C_{27}H_{29}NO_{10}.HCl.\frac{1}{2}H_{2}O
Batch Molecular Weight: 573
Physical Appearance: Red solid
Solubility: Water to 50 mM
Storage: Desiccate at +4°C

2. ANALYTICAL DATA

HPLC: Shows 99.2% purity
{\textsuperscript{1}}H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

<table>
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<tr>
<th></th>
<th>Carbon</th>
<th>Hydrogen</th>
<th>Nitrogen</th>
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<td>Theoretical</td>
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</table>
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Description:

Physical and Chemical Properties:
Batch Molecular Formula: C_{27}H_{29}NO_{10}.HCl.\frac{1}{2}H_{2}O
Batch Molecular Weight: 573
Physical Appearance: Red solid
Minimum Purity: ≥98%

Storage: Desiccate at +4°C

Solubility & Usage Info:
water to 50 mM

Stability and Solubility Advice:
Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath). Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References: