

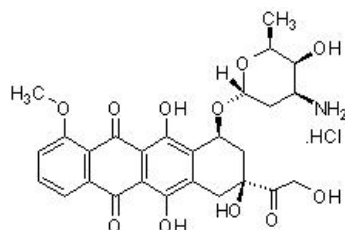
Product datasheet

Doxorubicin hydrochloride, Topoisomerase II inhibitor ab120629

[10 References](#) [2 Images](#)

Overview

Product name	Doxorubicin hydrochloride, Topoisomerase II inhibitor
Description	Topoisomerase II inhibitor. Antibiotic with cytotoxic actions.
Purity	> 98%
CAS Number	25316-40-9
Chemical structure	



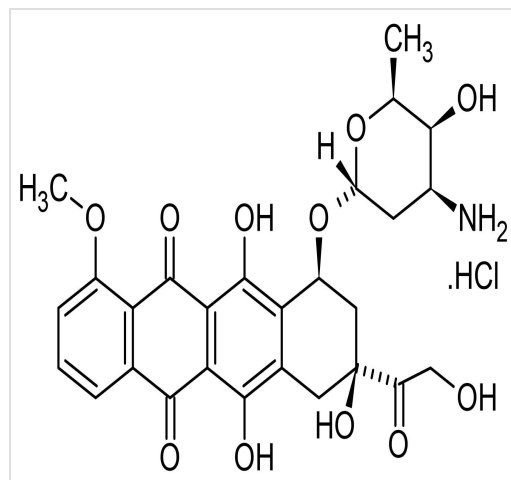
Properties

Chemical name	(8S,10S)-10-[(3-Amino-2,3,6-trideoxy-L-lyxohexopyranosyl)oxy]-7,8,9,10-tetrahydro-6,8,11-trihydroxy-8-(hydroxyacetyl)-1-methoxynaphthacene-5,12-dione hydrochloride
Molecular weight	579.98
Molecular formula	C ₂₇ H ₂₉ NO ₁₁ .HCl
PubChem identifier	443939
Storage instructions	Store at -20°C. Store under desiccating conditions. The product can be stored for up to 12 months.
Solubility overview	Soluble in DMSO to 25 mM and in water to 50 mM
Handling	<p>Wherever possible, you should prepare and use solutions on the same day. However, if you need to make up stock solutions in advance, we recommend that you store the solution as aliquots in tightly sealed vials at -20°C. Generally, these will be useable for up to one month. Before use, and prior to opening the vial we recommend that you allow your product to equilibrate to room temperature for at least 1 hour.</p> <p>Toxic, refer to SDS for further information</p> <p>Need more advice on solubility, usage and handling? Please visit our frequently asked questions (FAQ) page for more details.</p>

Source

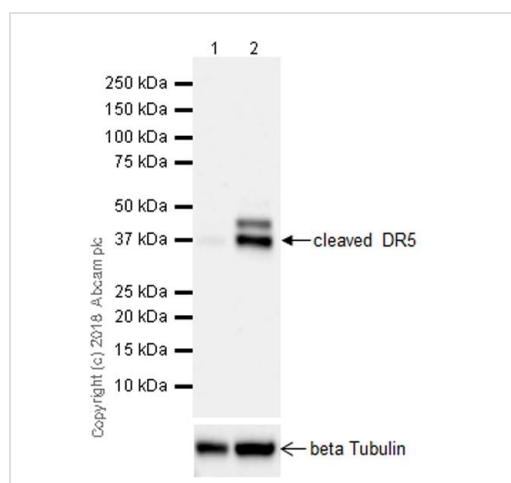
Synthetic

Images



Chemical Structure - Doxorubicin hydrochloride,
Topoisomerase II inhibitor (ab120629)

2D chemical structure image of ab120629, Doxorubicin hydrochloride, Topoisomerase II inhibitor



Western blot - Doxorubicin hydrochloride,
Topoisomerase II inhibitor (ab120629)

All lanes : Anti-DR5 antibody [EPR22276] ([ab230969](#)) at 1/1000 dilution

Lane 1 : Untreated HCT116 (human colorectal carcinoma epithelial cell), whole cell lysate

Lane 2 : HCT116 treated with 0.5 μM doxorubicin (ab120629) for 24 hours, whole cell lysate

Lysates/proteins at 20 μg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/100000 dilution

Exposure time: 3 minutes

The molecular weight observed is consistent with what has been described in the literature, the 40kDa band is a cleaved form (PMID: 20515924, 16297203).

Blocking/Dilution buffer: 5% NFDM/TBST.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES, NOT FOR USE IN HUMANS"

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