

Product datasheet

Dexrazoxane hydrochloride, Topoisomerase II inhibitor ab141109

[2 References](#) [1 Image](#)

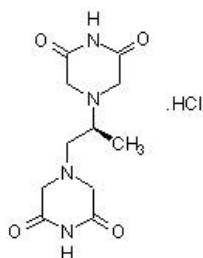
Overview

Product name	Dexrazoxane hydrochloride, Topoisomerase II inhibitor
Description	Topoisomerase II inhibitor. Intracellular ion chelator.
Biological description	Topoisomerase II inhibitor. Intracellular ion chelator. Bridges and stabilizes an interface between two ATPase promoters. Reduces ROS ^o production and activates the PI3K/Akt survival pathway. Cardioprotective effects when co-administered with doxorubicin (ab142006) <i>in vivo</i> .

Purity > 98%

CAS Number 149003-01-0

Chemical structure



Properties

Chemical name	4,4'-[(1S)-1-Methyl-1,2-ethanediyl]bis-2,6-piperazinedione hydrochloride
Molecular weight	304.73
Molecular formula	C ₁₁ H ₁₆ N ₄ O ₄ .HCl
PubChem identifier	71384
Storage instructions	Store at Room Temperature. The product can be stored for up to 12 months.
Solubility overview	Soluble in water to 100 mM and in DMSO to 100 mM
Handling	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. Need more advice on solubility, usage and handling? Please visit our frequently asked

[questions \(FAQ\) page](#) for more details.

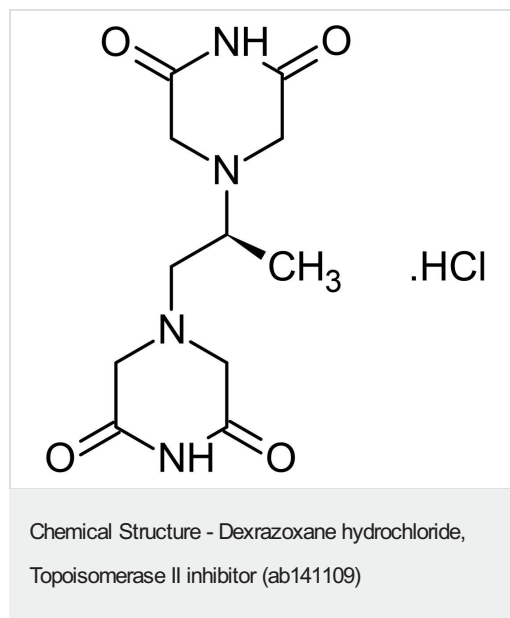
SMILES

Cl.O=C2CN(C[C@H](C)N1CC(=O)NC(=O)C1)CC(=O)N2

Source

Synthetic

Images



2D chemical structure image of ab141109, Dexrazoxane hydrochloride, Topoisomerase II inhibitor

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

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors
- Abcam biochemicals are novel compounds and we have not tested their biological activity in house. Please use the literature to identify how to use these products effectively. If you require further assistance please contact the scientific support team