SZABO SCANDIC

Part of Europa Biosite

Produktinformation

- Forschungsprodukte & Biochemikalien
- Zellkultur & Verbrauchsmaterial
- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!

Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

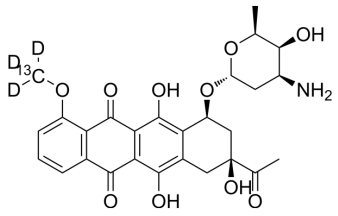
mail@szabo-scandic.com

www.szabo-scandic.com

linkedin.com/company/szaboscandic

Daunorubicin-$^{13}C,d_3$

Cat. No.:	HY-W654130
Molecular Formula:	$C_{26}{}^{13}CH_{26}D_3NO_{10}$
Molecular Weight:	531.53
Target:	Isotope-Labeled Compounds; Bacterial; ADC Cytotoxin; Apoptosis; Antibiotic; Topoisomerase; Autophagy; DNA/RNA Synthesis
Pathway:	Others; Anti-infection; Antibody-drug Conjugate/ADC Related; Apoptosis; Cell Cycle/DNA Damage; Autophagy
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Daunorubicin-$^{13}C,d_3$ is ^{13}C and deuterium labeled Daunorubicin. Daunorubicin (Daunomycin) is a topoisomerase II inhibitor with potent anti-tumor activity. Daunorubicin inhibits DNA and RNA synthesis. Daunorubicin is a cytotoxin that inhibits cancer cell viability and induces apoptosis and necrosis. Daunorubicin is also an anthracycline antibiotic. Daunorubicin can be used in the research of infection and variety of cancers, including leukemia, non-Hodgkin lymphomas, Ewing's sarcoma, Wilms' tumor[1][4][5].

REFERENCES

[1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. Ann Pharmacother. 2019 Feb;53(2):211-216.

[2]. Dano K, et al. Inhibition of DNA and RNA synthesis by daunorubicin in sensitive and resistant Ehrlich ascites tumor cells in vitro. Cancer Res. 1972 Jun;32(6):1307-14.

[3]. Arozal W, et al. Telmisartan prevents the progression of renal injury in daunorubicin rats with the alteration of angiotensin II and endothelin-1 receptor expression associated with its PPAR-γ agonist actions. Toxicology. 2011 Jan 11;279(1-3):91-9.

[4]. Lehmann M, et al. Activity of topoisomerase inhibitors daunorubicin, idarubicin, and aclarubicin in the Drosophila Somatic Mutation and Recombination Test. Environ Mol Mutagen. 2004;43(4):250-7.

[5]. Svensson SP, et al. Melanin inhibits cytotoxic effects of Doxorubicin and Daunorubicin in MOLT 4 cells. Pigment Cell Res. 2003 Aug;16(4):351-4

[6]. Gervasoni JE Jr, et al. An effective in vitro antitumor response against human pancreatic carcinoma with paclitaxel and Daunorubicin by induction of both necrosis and apoptosis. Anticancer Res. 2004 Sep-Oct;24(5A):2617-26

[7]. Emeline Bollaert, et al. MiR-15a-5p Confers Chemoresistance in Acute Myeloid Leukemia by Inhibiting Autophagy Induced by Daunorubicin. Int J Mol Sci. 2021 May 13;22(10):5153.

[8]. Cheng Wu, et al. Doxorubicin suppresses chondrocyte differentiation by stimulating ROS production. Eur J Pharm Sci. 2021 Dec 1;167:106013.

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA