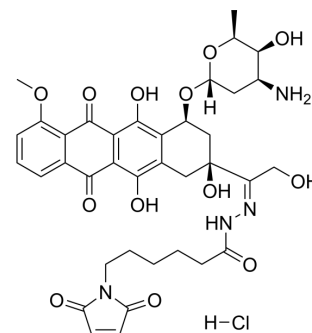


MC-DOXHZN hydrochloride

Cat. No.:	HY-16261B
CAS No.:	480998-12-7
Molecular Formula:	C ₃₇ H ₄₃ ClN ₄ O ₁₃
Molecular Weight:	787.21
Target:	Topoisomerase; Drug-Linker Conjugates for ADC
Pathway:	Cell Cycle/DNA Damage; Antibody-drug Conjugate/ADC Related
Storage:	-20°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 25 mg/mL (31.76 mM; Need ultrasonic)
H₂O : 12.5 mg/mL (15.88 mM; ultrasonic and warming and heat to 60°C)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	1.2703 mL	6.3515 mL	12.7031 mL
	5 mM	0.2541 mL	1.2703 mL	2.5406 mL
	10 mM	0.1270 mL	0.6352 mL	1.2703 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 2.08 mg/mL (2.64 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.08 mg/mL (2.64 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

MC-DOXHZN ((E/Z)-Aldoxorubicin) hydrochloride is an albumin-binding proagent of Doxorubicin (DNA topoisomerase II inhibitor), with acid-sensitive properties^[1].

IC₅₀ & Target

Topoisomerase II

Daunorubicins/Doxorubicins

CUSTOMER VALIDATION

-
- Int J Pharm. 2016 Oct 15;512(1):1-13.
 - Mol Pharm. 2017 Nov 6;14(11):3739-3749.
 - Mol Pharm. 2015 Jul 6;12(7):2217-28.
 - Bioconjug Chem. 2017 Oct 18;28(10):2530-2537.
 - China Biotechnology. 2017, 37(4): 68-75.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. Sevim Rollas, et al. Hydrazone, Amide, Carbamate, Macromolecular and Other Prodrugs of Doxorubicin. The Open Drug Delivery Journal, 2008, 2, 77-85.

Caution: Product has not been fully validated for medical applications. For research use only.

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