Carubicin hydrochloride

Cat. No.: HY-B2171A

CAS No.: 52794-97-5

Molecular Formula: $C_{26}H_{28}ClNO_{10}$

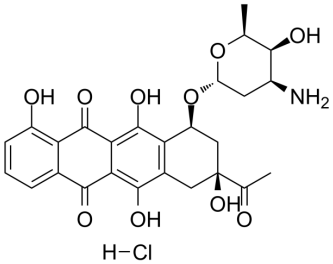
Molecular Weight: 549.95

Target: Apoptosis

Pathway: Apoptosis

Storage: 4°C, sealed storage, away from moisture

* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 62.5 mg/mL (113.65 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	1.8183 mL	9.0917 mL	18.1835 mL
	5 mM	0.3637 mL	1.8183 mL	3.6367 mL
	10 mM	0.1818 mL	0.9092 mL	1.8183 mL

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

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 2.08 mg/mL (3.78 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.08 mg/mL (3.78 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Carubicin hydrochloride is a microbially-derived compound. Carubicin hydrochloride is an effective inhibitor of VHL-defective (VHL−/−) CCRCC cell proliferation. Carubicin hydrochloride also induces apoptosis by a mechanism independent of p53 or hypoxia-inducible factor HIF2. Carubicin hydrochloride has the potential for the research of cancer diseases[1][2].

REFERENCES

[1]. Woldemichael GM, et al. Carminomycin I is an apoptosis inducer that targets the Golgi complex in clear cell renal carcinoma cells. Cancer Res. 2011 Jan 1;71(1):134-42.

[2]. Tevyashova AN, et al. Carminomycin, 14-hydroxycarminomycin and its novel carbohydrate derivatives potently kill human tumor cells and their multidrug resistant variants. J Antibiot (Tokyo). 2004 Feb;57(2):143-50.

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

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