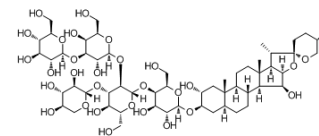


Digitonin

Cat. No.:	HY-N4000
CAS No.:	11024-24-1
Molecular Formula:	C ₅₆ H ₉₂ O ₂₉
Molecular Weight:	1229.31
Target:	Others
Pathway:	Others
Storage:	4°C, stored under nitrogen * In solvent : -80°C, 6 months; -20°C, 1 month (stored under nitrogen)



SOLVENT & SOLUBILITY

In Vitro
 DMSO : 100 mg/mL (81.35 mM; Need ultrasonic)
 H₂O : 50 mg/mL (40.67 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Mass		1 mg	5 mg	10 mg
	Concentration				
	1 mM		0.8135 mL	4.0673 mL	8.1346 mL
	5 mM		0.1627 mL	0.8135 mL	1.6269 mL
	10 mM		0.0813 mL	0.4067 mL	0.8135 mL

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

BIOLOGICAL ACTIVITY

Description
 Digitonin, a glycoside obtained from *Digitalis purpurea*, could increase cell permeability by binding to cholesterol molecules and reduce tumor growth^[1]. Digitonin is a natural detergent^[2].

In Vitro
 Digitonin, a detergent that increases cell permeability by binding to cholesterol molecules in the cell membrane, can increase cisplatin accumulation and reduce tumour growth in vitro^[1].

In Vivo
 In the liver parenchyma the concentrations are of the same magnitude. Measured with the ¹³³Xe-clearance technique, Digitonin does not alter the tumor blood flow. Digitonin enhances the tumor-growth retarding effect of CBDCA given intra-arterially at 5 mg/kg but not at 25 mg/kg^[1].

REFERENCES

[1]. Lindnér PG, et al. Digitonin enhances the efficacy of carboplatin in liver tumour after intra-arterial administration. *Cancer Chemother Pharmacol.* 1997;40(5):444-8.

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

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