Digoxigenin monodigitoxoside

Cat. No.: HY-145154

CAS No.: 5352-63-6

Molecular Formula: $C_{29}H_{44}O_8$

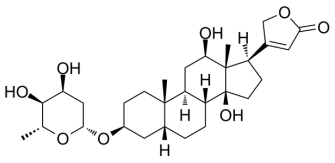
Molecular Weight: 520.65

Target: Na+/K+ ATPase

Pathway: Membrane Transporter/Ion Channel

Storage:

Powder	-20°C	3 years
	4°C	2 years
In solvent	-80°C	6 months
	-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (192.07 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	1.9207 mL	9.6034 mL	19.2068 mL
	5 mM	0.3841 mL	1.9207 mL	3.8414 mL
	10 mM	0.1921 mL	0.9603 mL	1.9207 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: ≥ 5 mg/mL (9.60 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 5 mg/mL (9.60 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 5 mg/mL (9.60 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Digoxigenin monodigitoxoside is a Na+/K+ ATPase inhibitor and cardiac glycoside metabolite of digoxin.

REFERENCES

[1]. De Pover A, et al. Influence of 16 beta formylation on Na, K-ATPase inhibition by cardiac glycosides. Naunyn Schmiedebergs Arch Pharmacol. 1982 Nov;321(2):135-9.

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

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