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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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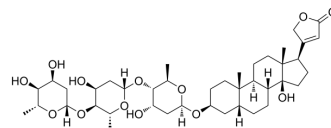
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Digitoxin (Standard)

Cat. No.:	HY-B1357R
CAS No.:	71-63-6
Molecular Formula:	C ₄₁ H ₆₄ O ₁₃
Molecular Weight:	764.94
Target:	Bcl-2 Family; Caspase; Apoptosis; HSV; Na ⁺ /K ⁺ ATPase; Calcium Channel
Pathway:	Apoptosis; Anti-infection; Membrane Transporter/Ion Channel; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

Digitoxin (Standard) is the analytical standard of Digitoxin. This product is intended for research and analytical applications. Digitoxin is an anti-cancer agent. Digitoxin induces apoptosis, inhibits influenza cytokine storm, causes DNA double-stranded breaks (DSBs) and blocks the cell cycle at the G2/M phase. Digitoxin induces calcium uptake into cells by forming transmembrane calcium channels and can be used for research of heart failure ^{[1][2][3][4][5]}.

REFERENCES

- [1]. Haux J. Digitoxin is a potential anticancer agent for several types of cancer [J]. Medical hypotheses, 1999, 53(6): 543-548.
- [2]. Su C T, Hsu J T A, Hsieh H P, et al. Anti-HSV activity of digitoxin and its possible mechanisms [J]. Antiviral research, 2008, 79(1): 62-70.
- [3]. Gan H, Qi M, Chan C, et al. Digitoxin inhibits HeLa cell growth through the induction of G2/M cell cycle arrest and apoptosis in vitro and in vivo [J]. International Journal of Oncology, 2020, 57(2): 562-573.
- [4]. Pollard B S, Blanco J C, Pollard J R. Classical drug digitoxin inhibits influenza cytokine storm, with implications for COVID-19 therapy [J]. in vivo, 2020, 34(6): 3723-3730.
- [5]. Arispe N, et al. Heart failure drug digitoxin induces calcium uptake into cells by forming transmembrane calcium channels [J]. Proceedings of the National Academy of Sciences, 2008, 105(7): 2610-2615.

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

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