SZABO SCANDIC

Part of Europa Biosite

Produktinformation

- Forschungsprodukte & Biochemikalien
- Zellkultur & Verbrauchsmaterial
- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!

Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

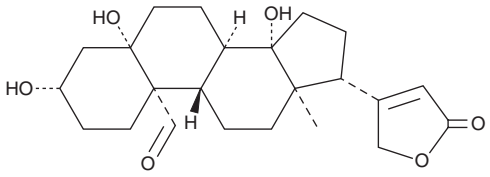
linkedin.com/company/szaboscandic

PRODUCT INFORMATION

Strophanthidin

Item No. 39244

CAS Registry No.:	66-28-4
Formal Name:	3β,5β,14-trihydroxy-19-oxo-card-20(22)-enolide
Synonym:	NSC 86078
MF:	$C_{23}H_{32}O_6$
FW:	404.5
Purity:	≥90%
Supplied as:	A solid
Storage:	-20°C
Stability:	≥4 years
Item Origin:	Plant/*Strophanthus kombe*



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

Strophanthidin is supplied as a solid. A stock solution may be made by dissolving the strophanthidin in the solvent of choice, which should be purged with an inert gas. Strophanthidin is slightly soluble in chloroform and methanol.

Description

Strophanthidin is a cardenolide that has been found in *A. schimperi* and has diverse biological activities.[1-4] It is an inhibitor of N-acetyltransferase (IC_{50} = ~1.2 µM).[1] Strophanthidin (1 µM) reduces maximal Na^+/K^+-ATPase pump activity and cell attachment and increases cell death in MDCK-C7 cells.[2] It decreases the levels of steroid receptor coactivator 3 (SRC-3) in MCF-7 breast cancer cells when used at a concentration of 500 nM.[3] Strophanthidin (50 µM) increases calcium efflux and sarcoplasmic reticulum calcium levels in a voltage-clamp assay using isolated and perfused guinea pig hearts.[4]

References

1. González-García, C., Ceña, V., and Klein, D.C. Characterization of the α+-like Na^+,K^+-ATPase which mediates ouabain inhibition of adrenergic induction of N-acetyltransferase (EC 2.3.1.87) activity: Studies with isolated pinealocytes. *Mol. Pharmacol.* **32(6)**, 792-797 (1987).
2. Akimova, O.A., Bagrov, A.Y., Lopina, O.D., *et al.* Cardiotonic steroids differentially affect intracellular Na^+ and $[Na^+]_i/[K^+]_i$-independent signaling in C7-MDCK cells. *J. Biol. Chem.* **280(1)**, 832-839 (2005).
3. Wang, Y., Lonard, D.M., Yu, Y., *et al.* Bufalin is a potent small-molecule inhibitor of the steroid receptor coactivators SRC-3 and SRC-1. *Cancer Res.* **74(5)**, 1506-1517 (2014).
4. Bennett, D.L., O'Neill, S.C., and Eisner, D.A. Strophanthidin-induced gain of Ca^{2+} occurs during diastole and not systole in guinea-pig ventricular myocytes. *Pflugers Arch.* **437(5)**, 731-736 (1999).

CAYMAN CHEMICAL
1180 EAST ELLSWORTH RD
ANN ARBOR, MI 48108 · USA
PHONE: [800] 364-9897
[734] 971-3335
FAX: [734] 971-3640
CUSTSERV@CAYMANCHEM.COM
WWW.CAYMANCHEM.COM