



# SZABO SCANDIC

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## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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# Camptothecin

Topoisomerase I inhibitor  
Catalog No. SIH-242



Discovery through partnership | Excellence through quality

## Overview

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### Product Name

Camptothecin

### Description

Topoisomerase I inhibitor

### Purity

>98%

### CAS No.

04-03-89

### Molecular Formula

C<sub>11</sub>H<sub>11</sub>N<sub>1</sub>O<sub>1</sub>

### Molecular Weight

348.36

## Properties

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### Storage Temperature

-20°C

### Shipping Temperature

Shipped Ambient

### Product Type

Inhibitor

### Solubility

Soluble to 5 mM in DMSO

### Source

Synthetic

### Appearance

Yellow solid

### SMILES

CC[C@@]1(C2=C(COC1=O)C(=O)N3CC4=CC5=CC=CC5N=C4C3=C2)O

### InChI

InChI=1S/C20H16N2O4/c1-2-20(25)14-8-16-17-12(7-11-5-3-4-6-15(11)21-17)9-22(16)18(23)13(14)10-26-19(20)24/h3-8,25H,2,9-10H2,1

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**InChIKey**

VSJKWCGYPAHWDS-FQEVSTJZSA-N

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**Safety Phrases**

Classification: Toxic. May be harmful or fatal if inhaled, swallowed or absorbed through skin.

Safety Phrases:

S22 - Do not breathe dust

S24/25 - Avoid contact with skin and eyes

S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection

S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible)

Risk Phrases:

R23/24/25 - Toxic by inhalation, in contact with skin and if swallowed

R46 - May cause heritable genetic damage

Hazard Phrases:

H302

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**Cite This Product**

Camptothecin (StressMarq Biosciences Inc., Victoria BC CANADA, Catalog # SIH-242)

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**Biological Description**

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**Alternative Names**

(4S)-4-Ethyl-4-hydroxy-1H-pyrano[3',4':6,7]indolizino[1,2-b]quinoline-3,14(4H,12H)-dione

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**Research Areas**

Cancer, Apoptosis

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**PubChem ID**

24360

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**Scientific Background**

Camptothecin is a cytotoxic quinoline alkaloid which inhibits the DNA enzyme topoisomerase I. It binds to the topo I and DNA complex, resulting in a tertiary complex which stabilizes it. This prevents re-ligation and therefore causes DNA damage which results in apoptosis (1-3). It has showed remarkable anti-cancer activity in clinical trials.

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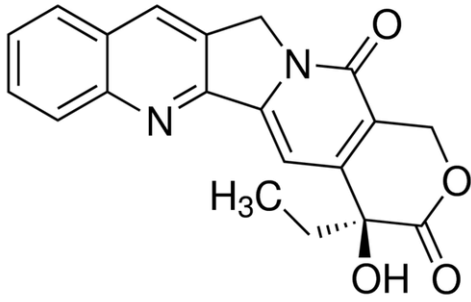
**References**

1. Adams D.J., et al. (2005) Cancer Chem and Pharm. 57(2): 145-154.
  2. Redinbo M.R., Stewart L., Kuhn P., Champoux J.J. and Hol W.G.J. (1998) Science. 279:1504-1513.
  3. Pommier Y., et al. (2003) Mutat Res. 532: 173-203.
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**Product Images**

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Chemical structure of Camptothecin (SIH-242), a Topoisomerase I inhibitor. CAS #: 7689-03-4. Molecular Formula: C<sub>20</sub>H<sub>16</sub>N<sub>2</sub>O<sub>4</sub>. Molecular Weight: 348.36 g/mol.



## Product Citations (0)

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Currently there are no citations for this product.

## Reviews

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There are no reviews yet.