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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](https://www.linkedin.com/company/szaboscandic) 

Tetracosane

Cat. No.:	HY-N7933		
CAS No.:	646-31-1		
Molecular Formula:	C ₂₄ H ₅₀		
Molecular Weight:	338.65		
Target:	Apoptosis		
Pathway:	Apoptosis		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



BIOLOGICAL ACTIVITY

Description	Tetracosane (ALKANE C24) is a natural product that can be found in <i>Acrostichum aureum</i> . Tetracosane shows cytotoxicity and induces Apoptosis. Tetracosane has the potential for the research of peptic ulcer ^[1] .																
In Vitro	<p>Tetracosane (0-250 µM; 24, 48 h) shows cytotoxicity and induces apoptosis in a time dependent manner^[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <p>Cell Cytotoxicity Assay^[1]</p> <table border="1"> <tr> <td>Cell Line:</td> <td>HT-29, MDA-MB-231, AGS cells</td> </tr> <tr> <td>Concentration:</td> <td>0-250 µM</td> </tr> <tr> <td>Incubation Time:</td> <td></td> </tr> <tr> <td>Result:</td> <td>Showed cytotoxicity with IC₅₀s of 128.7, >250, >250 µM for HT-29, MDA-MB-231, AGS cells, respectively.</td> </tr> </table> <p>Apoptosis Analysis^[1]</p> <table border="1"> <tr> <td>Cell Line:</td> <td>AGS cells</td> </tr> <tr> <td>Concentration:</td> <td>500 µg/mL</td> </tr> <tr> <td>Incubation Time:</td> <td>24, 48 h</td> </tr> <tr> <td>Result:</td> <td>Induced apoptosis with the late apoptosis rate of 10% at 24 h and increased to 20% at 48 h.</td> </tr> </table>	Cell Line:	HT-29, MDA-MB-231, AGS cells	Concentration:	0-250 µM	Incubation Time:		Result:	Showed cytotoxicity with IC ₅₀ s of 128.7, >250, >250 µM for HT-29, MDA-MB-231, AGS cells, respectively.	Cell Line:	AGS cells	Concentration:	500 µg/mL	Incubation Time:	24, 48 h	Result:	Induced apoptosis with the late apoptosis rate of 10% at 24 h and increased to 20% at 48 h.
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REFERENCES

[1]. Uddin SJ, et al. Evaluation of cytotoxic activity of patriscabratine, tetracosane and various flavonoids isolated from the Bangladeshi medicinal plant *Acrostichum aureum*. *Pharm Biol.* 2012 Oct;50(10):1276-80.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA