



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

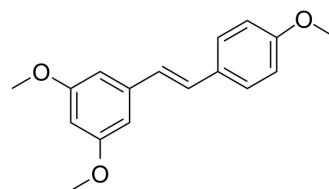
mail@szabo-scandic.com

www.szabo-scandic.com

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

trans-Trimethoxyresveratrol

Cat. No.:	HY-N1408												
CAS No.:	22255-22-7												
Molecular Formula:	C ₁₇ H ₁₈ O ₃												
Molecular Weight:	270.32												
Target:	Reactive Oxygen Species												
Pathway:	Immunology/Inflammation; Metabolic Enzyme/Protease; NF-κB												
Storage:	<table border="0"> <tr> <td>Powder</td> <td>-20°C</td> <td>3 years</td> </tr> <tr> <td></td> <td>4°C</td> <td>2 years</td> </tr> <tr> <td>In solvent</td> <td>-80°C</td> <td>2 years</td> </tr> <tr> <td></td> <td>-20°C</td> <td>1 year</td> </tr> </table>	Powder	-20°C	3 years		4°C	2 years	In solvent	-80°C	2 years		-20°C	1 year
Powder	-20°C	3 years											
	4°C	2 years											
In solvent	-80°C	2 years											
	-20°C	1 year											



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 50 mg/mL (184.97 mM)
 H₂O : < 0.1 mg/mL (insoluble)
 * "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	3.6993 mL	18.4966 mL	36.9932 mL
	5 mM	0.7399 mL	3.6993 mL	7.3986 mL
	10 mM	0.3699 mL	1.8497 mL	3.6993 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 2.5 mg/mL (9.25 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.5 mg/mL (9.25 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.5 mg/mL (9.25 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Trans-Trimethoxyresveratrol is a derivative of Resveratrol (RSV), and it may be a more potent anti-inflammatory, antiangiogenic and vascular-disrupting agent when compared with resveratrol. In vitro: The in vitro study of resveratrol and trans-Trimethoxyresveratrol showed rather weak cytotoxic effects on three cancer cell lines (HepG2, MCF-7, and MDA-MB-231), which contradicted a previous study reporting that resveratrol inhibited MCF-7 cells with an IC₅₀ of about 10 μM. This discrepancy might be explained by the fact that the measurements were made 24 h after drug treatment, whereas the

measurements of the previous study were taken 6 days after. The fact that the cytotoxic effect of trans-Trimethoxyresveratrol was lower than that of resveratrol is surprising, because in many studies, trans-Trimethoxyresveratrol is the most active analogue of resveratrol, although resveratrol shows much stronger antioxidant effects than that of trans-Trimethoxyresveratrol.[1] In vivo: Zebrafish embryos offer great advantage over their adults as well as other in vivo models because of the external development and optical transparency during their first few days, making them invaluable in the inspection of developmental processes. These unique advantages can even be made more useful when specific cell types are labeled with fluorescent probes. Zebrafish embryo in vivo, suggests that trans-Trimethoxyresveratrol has both more potent antiangiogenic activity and more importantly, stronger specific cytotoxic effects on endothelial cells than does resveratrol.[1]

REFERENCES

[1]. Alex, D. et al. Resveratrol derivative, trans-3,5,4'-trimethoxystilbene, exerts antiangiogenic and vascular-disrupting effects in zebrafish through the downregulation of VEGFR2 and cell-cycle modulation. *Journal of cellular biochemistry* 109, 339-346, doi:

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