



# 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

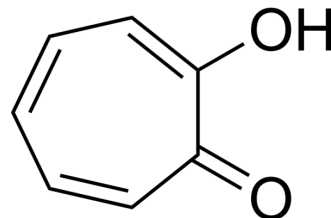
[mail@szabo-scandic.com](mailto:mail@szabo-scandic.com)

[www.szabo-scandic.com](http://www.szabo-scandic.com)

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

## Tropolone

<b>Cat. No.:</b>	HY-N7135		
<b>CAS No.:</b>	533-75-5		
<b>Molecular Formula:</b>	C <sub>7</sub> H <sub>6</sub> O <sub>2</sub>		
<b>Molecular Weight:</b>	122.12		
<b>Target:</b>	Tyrosinase		
<b>Pathway:</b>	Metabolic Enzyme/Protease		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : ≥ 100 mg/mL (818.87 mM)  
 H<sub>2</sub>O : 25 mg/mL (204.72 mM; Need ultrasonic)  
 \* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent		Mass		
	Concentration		1 mg	5 mg	10 mg
	1 mM		8.1887 mL	40.9433 mL	81.8867 mL
	5 mM		1.6377 mL	8.1887 mL	16.3773 mL
	10 mM		0.8189 mL	4.0943 mL	8.1887 mL

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

#### In Vivo

- Add each solvent one by one: PBS  
Solubility: 20 mg/mL (163.77 mM); Clear solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline  
Solubility: ≥ 2.5 mg/mL (20.47 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
Solubility: ≥ 2.5 mg/mL (20.47 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil  
Solubility: ≥ 2.5 mg/mL (20.47 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

Tropolone is a Tropone derivative with a hydroxyl group at the 2-position, and is the precursor of many Azulene derivatives, such as 2-methylazulene-1-carboxylate. Tropolone is a potent mushroom tyrosinase inhibitor with an IC<sub>50</sub> of 0.4 μM. Its inhibitory effect can be achieved by dialysis or excess CU<sup>2+</sup> Reversal<sup>[1][2]</sup>.

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**IC<sub>50</sub> & Target**IC50: 0.4 μM (mushroom tyrosinase)<sup>[2]</sup>

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**REFERENCES**

[1]. Donald D Nolting, et al. Synthesis of bicyclo[5.3.0]azulene derivatives. Nat Protoc. 2009; 4(8): 1113–1117.

[2]. VardaKahn, et al. Inhibition of mushroom tyrosinase by tropolone Phytochemistry. Volume 24, Issue 5, 1985, Pages 905-908

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**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](mailto:tech@MedChemExpress.com)

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