



# 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

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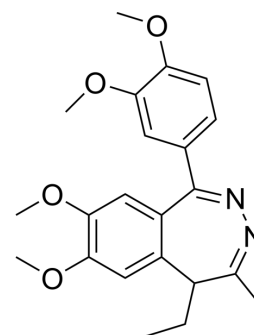
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## Tofisopam

<b>Cat. No.:</b>	HY-A0165		
<b>CAS No.:</b>	22345-47-7		
<b>Molecular Formula:</b>	C <sub>22</sub> H <sub>26</sub> N <sub>2</sub> O <sub>4</sub>		
<b>Molecular Weight:</b>	382.45		
<b>Target:</b>	Others		
<b>Pathway:</b>	Others		
<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 : 12.5 mg/mL (32.68 mM; ultrasonic and warming and heat to 60°C)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	2.6147 mL	13.0736 mL	26.1472 mL
	5 mM	0.5229 mL	2.6147 mL	5.2294 mL
	10 mM	0.2615 mL	1.3074 mL	2.6147 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: ≥ 1.25 mg/mL (3.27 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
Solubility: ≥ 1.25 mg/mL (3.27 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil  
Solubility: ≥ 1.25 mg/mL (3.27 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

Tofisopam, a 2,3-benzodiazepine compound, is an orally active anxiolytic agent<sup>[1]</sup>.

#### In Vitro

Tofisopam administration at a dose of 50 mg/kg for seven days improves the impaired cognitive performance, enhances the attenuated synaptic transmission in the hippocampus, increases proliferation in subgranular zones, and improves the decrease in astrocytes in amnesic rats<sup>[1]</sup>.

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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## REFERENCES

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[1]. Umut İrfan Üçel, et al. Antiamnesic effects of tofisopam against scopolamine-induced cognitive impairments in rats. *Pharmacol Biochem Behav.* 2020 Mar;190:172858.

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

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