



# SZABO SCANDIC

Part of Europa Biosite

## 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

### SZABO-SCANDIC HandelsgmbH

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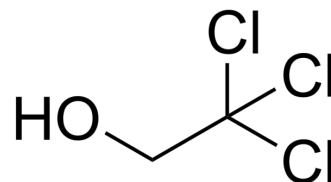
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## 2,2,2-Trichloroethanol

<b>Cat. No.:</b>	HY-B1500		
<b>CAS No.:</b>	115-20-8		
<b>Molecular Formula:</b>	C <sub>2</sub> H <sub>3</sub> Cl <sub>3</sub> O		
<b>Molecular Weight:</b>	149.4		
<b>Target:</b>	Potassium Channel; Endogenous Metabolite		
<b>Pathway:</b>	Membrane Transporter/Ion Channel; Metabolic Enzyme/Protease		
<b>Storage:</b>	Pure form	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



### SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : 100 mg/mL (669.34 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	<b>Preparing Stock Solutions</b>	1 mM	6.6934 mL	33.4672 mL	66.9344 mL
		5 mM	1.3387 mL	6.6934 mL	13.3869 mL
10 mM		0.6693 mL	3.3467 mL	6.6934 mL	
Please refer to the solubility information to select the appropriate solvent.					
<b>In Vivo</b>	<ol style="list-style-type: none"> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 40% PEG300 &gt;&gt; 5% Tween-80 &gt;&gt; 45% saline Solubility: ≥ 2.5 mg/mL (16.73 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (16.73 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% corn oil Solubility: ≥ 2.5 mg/mL (16.73 mM); Clear solution</li> </ol>				

### BIOLOGICAL ACTIVITY

<b>Description</b>	2,2,2-Trichloroethanol, the active form of Chloral hydrate, is an agonist for the nonclassical K <sub>2P</sub> channels TREK-1 (KCNK2) and TRAAK (KCNK4) <sup>[1]</sup> .
<b>IC<sub>50</sub> &amp; Target</b>	Human Endogenous Metabolite
<b>In Vitro</b>	2,2,2-trichloroethanol activates a nonclassical potassium channel in cerebrovascular smooth muscle and dilates the middle cerebral artery <sup>[1]</sup> .

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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]. Nikhil K Parelkar , et al. 2,2,2-trichloroethanol Activates a Nonclassical Potassium Channel in Cerebrovascular Smooth Muscle and Dilates the Middle Cerebral Artery. J Pharmacol Exp Ther. 2010 Mar;332(3):803-10.

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

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