



# 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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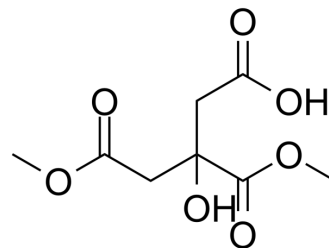
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## Dimethyl Citric acid

<b>Cat. No.:</b>	HY-N9542		
<b>CAS No.:</b>	53798-97-3		
<b>Molecular Formula:</b>	C <sub>8</sub> H <sub>12</sub> O <sub>7</sub>		
<b>Molecular Weight:</b>	220.18		
<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 : ≥ 100 mg/mL (454.17 mM)  
 H<sub>2</sub>O : 5 mg/mL (22.71 mM; ultrasonic and warming and heat to 60°C)  
 \* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent		Mass		
	Concentration		1 mg	5 mg	10 mg
	1 mM		4.5417 mL	22.7087 mL	45.4174 mL
	5 mM		0.9083 mL	4.5417 mL	9.0835 mL
	10 mM		0.4542 mL	2.2709 mL	4.5417 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 (11.35 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
Solubility: ≥ 2.5 mg/mL (11.35 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil  
Solubility: ≥ 2.5 mg/mL (11.35 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

Dimethylurea/citric acid is a highly efficient deep eutectic solvent (DES). Dimethylurea/citric acid can be used as a catalyst and a green reaction medium for the synthesis of bis(indolyl)methanes, quinolines and aryl-4, 5-diphenyl-1H-imidazoles.

### REFERENCES

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

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