



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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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

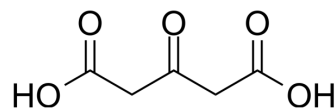
[mail@szabo-scandic.com](mailto:mail@szabo-scandic.com)

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

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

## 3-Oxopentanedioic acid

Cat. No.:	HY-W007752
CAS No.:	542-05-2
Molecular Formula:	C <sub>5</sub> H <sub>6</sub> O <sub>5</sub>
Molecular Weight:	146.1
Target:	Endogenous Metabolite
Pathway:	Metabolic Enzyme/Protease
Storage:	-20°C, sealed storage, away from moisture * The compound is unstable in solutions, freshly prepared is recommended.



### SOLVENT & SOLUBILITY

In Vitro	DMSO : 120 mg/mL (821.36 mM; Need ultrasonic)																							
	H <sub>2</sub> O : < 0.1 mg/mL (insoluble)																							
	Preparing Stock Solutions	<table border="1"> <thead> <tr> <th rowspan="2">Solvent Concentration</th> <th colspan="3">Mass</th> </tr> <tr> <th>1 mg</th> <th>5 mg</th> <th>10 mg</th> </tr> </thead> <tbody> <tr> <td>1 mM</td> <td>6.8446 mL</td> <td>34.2231 mL</td> <td>68.4463 mL</td> </tr> <tr> <td>5 mM</td> <td>1.3689 mL</td> <td>6.8446 mL</td> <td>13.6893 mL</td> </tr> <tr> <td>10 mM</td> <td>0.6845 mL</td> <td>3.4223 mL</td> <td>6.8446 mL</td> </tr> </tbody> </table>	Solvent Concentration	Mass			1 mg	5 mg	10 mg	1 mM	6.8446 mL	34.2231 mL	68.4463 mL	5 mM	1.3689 mL	6.8446 mL	13.6893 mL	10 mM	0.6845 mL	3.4223 mL	6.8446 mL			
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Please refer to the solubility information to select the appropriate solvent.																								
In Vivo	<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: ≥ 3 mg/mL (20.53 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% (20% SBE-β-CD in saline) Solubility: ≥ 3 mg/mL (20.53 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% corn oil Solubility: ≥ 3 mg/mL (20.53 mM); Clear solution</li> </ol>																							

### BIOLOGICAL ACTIVITY

Description	3-Oxopentanedioic acid is a simple dicarboxylic acid, which is well-known to be used in the tropinone synthesis.
IC <sub>50</sub> & Target	Human Endogenous Metabolite

### REFERENCES

**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