



# 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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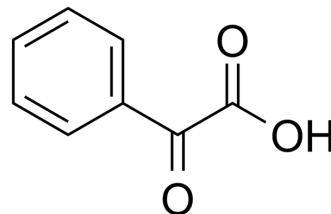
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## Phenylglyoxylic acid

<b>Cat. No.:</b>	HY-W010255		
<b>CAS No.:</b>	611-73-4		
<b>Molecular Formula:</b>	C <sub>8</sub> H <sub>6</sub> O <sub>3</sub>		
<b>Molecular Weight:</b>	150.13		
<b>Target:</b>	Endogenous Metabolite		
<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 : 50 mg/mL (333.04 mM; Need ultrasonic)

Concentration	Solvent	Mass	Preparing Stock Solutions		
			1 mg	5 mg	10 mg
1 mM			6.6609 mL	33.3045 mL	66.6089 mL
5 mM			1.3322 mL	6.6609 mL	13.3218 mL
10 mM			0.6661 mL	3.3304 mL	6.6609 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 (16.65 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
Solubility: ≥ 2.5 mg/mL (16.65 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil  
Solubility: ≥ 2.5 mg/mL (16.65 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

Phenylglyoxylic acid (Benzoylformic acid) is a metabolite of ethylbenzene and styrene (EB/S) and can be used as a biomarker of exposure to EB/S in human<sup>[1]</sup>.

### REFERENCES

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[1]. Capella KM, et al. Ethylbenzene and styrene exposure in the United States based on urinary mandelic acid and phenylglyoxylic acid: NHANES 2005-2006 and 2011-2012. Environ Res. 2019 Apr;171:101-110.

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

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