



# 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

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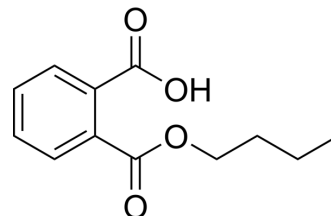
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## Monobutyl phthalate

<b>Cat. No.:</b>	HY-N7143		
<b>CAS No.:</b>	131-70-4		
<b>Molecular Formula:</b>	C <sub>12</sub> H <sub>14</sub> O <sub>4</sub>		
<b>Molecular Weight:</b>	222.24		
<b>Target:</b>	Drug 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 : 100 mg/mL (449.96 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	4.4996 mL	22.4982 mL	44.9964 mL
	5 mM	0.8999 mL	4.4996 mL	8.9993 mL
	10 mM	0.4500 mL	2.2498 mL	4.4996 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 (11.25 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
Solubility: ≥ 2.5 mg/mL (11.25 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil  
Solubility: ≥ 2.5 mg/mL (11.25 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

Monobutyl phthalate, a major metabolite of dibutyl phthalate (DBP), possesses antiandrogenic effects. Monobutyl phthalate is an embryotoxicant<sup>[1][2]</sup>.

### CUSTOMER VALIDATION

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- Environ Pollut. 2022 Jul 12;309:119756.

See more customer validations on [www.MedChemExpress.com](http://www.MedChemExpress.com)

## REFERENCES

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[1]. van Dartel DA, et al. Early gene expression changes during embryonic stem cell differentiation into cardiomyocytes and their modulation by monobutyl phthalate. *Reprod Toxicol.* 2009 Apr;27(2):93-102.

[2]. Ema M, et al. Antiandrogenic effects of dibutyl phthalate and its metabolite, monobutyl phthalate, in rats. *Congenit Anom (Kyoto).* 2002 Dec;42(4):297-308.

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

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