



# 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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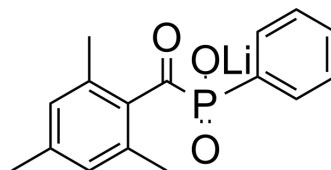
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## LAP

<b>Cat. No.:</b>	HY-44076
<b>CAS No.:</b>	85073-19-4
<b>Molecular Formula:</b>	C <sub>16</sub> H <sub>16</sub> LiO <sub>3</sub> P
<b>Molecular Weight:</b>	294.21
<b>Target:</b>	Others
<b>Pathway:</b>	Others
<b>Storage:</b>	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



## SOLVENT & SOLUBILITY

### In Vitro

DMSO : 25 mg/mL (84.97 mM; Need ultrasonic)  
H<sub>2</sub>O : 7.58 mg/mL (25.76 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	3.3989 mL	16.9947 mL	33.9893 mL
	5 mM	0.6798 mL	3.3989 mL	6.7979 mL
	10 mM	0.3399 mL	1.6995 mL	3.3989 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 (8.50 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
Solubility: ≥ 2.5 mg/mL (8.50 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil  
Solubility: ≥ 2.5 mg/mL (8.50 mM); Clear solution

## BIOLOGICAL ACTIVITY

### Description

LAP (Lithium 2 minus 2 - phenyl - trimethylbenzoylphosphinate) is a kind of free radical initiator. The free radicals produced by LAP under bioprinting conditions are potentially cytotoxic and mutagenic<sup>[1]</sup>.

## REFERENCES

- [1]. Nguyen AK, et al. The Photoinitiator Lithium Phenyl (2,4,6-Trimethylbenzoyl) Phosphinate with Exposure to 405 nm Light Is Cytotoxic to Mammalian Cells but Not

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

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