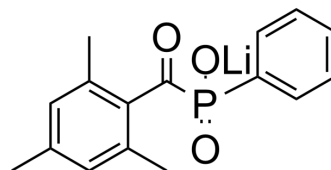


LAP

Cat. No.:	HY-44076
CAS No.:	85073-19-4
Molecular Formula:	C ₁₆ H ₁₆ LiO ₃ P
Molecular Weight:	294.21
Target:	Others
Pathway:	Others
Storage:	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 ₂ O : 7.58 mg/mL (25.76 mM; Need ultrasonic)					
	Preparing Stock Solutions	<div><div>Solvent</div><div>Concentration</div></div>	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	1. 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					
	2. 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					
	3. 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 ^[1] .
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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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