LAP

Cat. No.: HY-44076

CAS No.: 85073-19-4

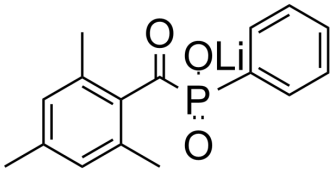
Molecular Formula: $C_{16}H_{16}LiO_3P$

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_2O : 7.58 mg/mL (25.76 mM; Need ultrasonic)

Preparing Stock Solutions

Solvent / Mass / Concentration	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].

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

Mutagenic in Bacterial Reverse Mutation Assays. Polymers (Basel). 2020 Jul 3;12(7):1489.

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