

Product Name: LAP

Catalog No.: 6146

Batch No.: 5

CAS Number: 85073-19-4

IUPAC Name: *P*-Phenyl-*P*-(2,4,6-trimethylbenzoyl)phosphinic acid

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₆H₁₆LiO₃P·¼H₂O

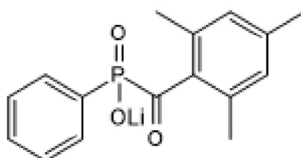
Batch Molecular Weight: 298.71

Physical Appearance: White solid

Solubility: water to 100 mM
DMSO to 50 mM

Storage: Store at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98.6% purity

¹H NMR: Consistent with structure

¹³C NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon Hydrogen Nitrogen	
Theoretical	65.31	5.48
Found	63.35	5.5

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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CAS Number: 85073-19-4

IUPAC Name: *P*-Phenyl-*P*-(2,4,6-trimethylbenzoyl)phosphinic acid

Description:

LAP is a photocrosslinker for hydrogels.

Physical and Chemical Properties:

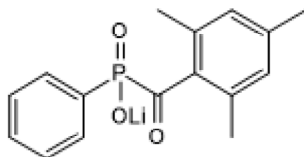
Batch Molecular Formula: C₁₆H₁₆LiO₃P·¼H₂O

Batch Molecular Weight: 298.71

Physical Appearance: White solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

water to 100 mM

DMSO to 50 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. *Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Valkevich et al (2012) Forging isopeptide bonds using thiol-ene chemistry: site-specific coupling of ubiquitin molecules for studying the activity of isopeptidases *J. Am. Chem. Soc.* **134** 6916. PMID: 22497214.

Fairbanks et al (2009) Photoinitiated polymerization of PEG-diacrylate with Li phenyl-2,4,6-trimethylbenzoylphosphinate: polymerization rate and cytocompatibility. *Biomaterials* **30** 6702. PMID: 19783300.

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