

Product data sheet



MedKoo Cat#: 598456 Name: Lauroyl peroxide CAS: 105-74-8 Chemical Formula: C ₂₄ H ₄₆ O ₄ Exact Mass: 398.3396 Molecular Weight: 398.628	
Product supplied as: Powder	
Purity (by HPLC): ≥ 98%	
Shipping conditions: Ambient temperature	
Storage conditions: Powder: -20°C 3 years; 4°C 2 years. In solvent: -80°C 3 months; -20°C 2 weeks.	

1. Product description:

Lauroyl peroxide is an oxidizing agent. Can ignite organic materials; hence a dangerous fire and explosion risk. Strongly reduced material such as sulfides, nitrides, and hydrides may react explosively. Vigorous reactions with other reducing agents.

2. CoA, QC data, SDS, and handling instruction

SDS and handling instruction, CoA with copies of QC data (NMR, HPLC and MS analytical spectra) can be downloaded from the product web page under “QC And Documents” section. Note: copies of analytical spectra may not be available if the product is being supplied by MedKoo partners. Whether the product was made by MedKoo or provided by its partners, the quality is 100% guaranteed.

3. Solubility data

Solvent	Max Conc. mg/mL	Max Conc. mM
TBD	TBD	TBD

4. Stock solution preparation table:

Concentration / Solvent Volume / Mass	1 mg	5 mg	10 mg
1 mM	2.51 mL	12.54 mL	25.09 mL
5 mM	0.50 mL	2.51 mL	5.02 mL
10 mM	0.25 mL	1.25 mL	2.51 mL
50 mM	0.05 mL	0.25 mL	0.50 mL

5. Molarity Calculator, Reconstitution Calculator, Dilution Calculator

Please refer the product web page under section of “Calculator”

6. Recommended literature which reported protocols for in vitro and in vivo study

In vitro study

1. Bernabé-Zafón V, Beneito-Cambra M, Simó-Alfonso EF, Ramis-Ramos G, Herrero-Martínez JM. Photo-polymerized lauryl methacrylate monolithic columns for CEC using lauroyl peroxide as initiator. Electrophoresis. 2009 Nov;30(21):3748-56. doi: 10.1002/elps.200900038. PMID: 19816888.

2. Cantó-Mirapeix A, Herrero-Martínez JM, Mongay-Fernández C, Simó-Alfonso EF. Lauroyl peroxide as thermal initiator of lauryl methacrylate monolithic columns for CEC. Electrophoresis. 2008 Nov;29(21):4399-406. doi: 10.1002/elps.200800317. PMID: 18942681.

In vivo study

TBD

7. Bioactivity

Biological target:

Lauroyl peroxide is an oxidizing agent.

In vitro activity

Product data sheet



The LMA (lauryl methacrylate) columns photo-polymerized with LPO (lauroyl peroxide) were compared with those prepared with AIBN. Using PAHs, alkylbenzenes and basic compounds for testing, the columns obtained with LPO gave the best compromise between efficiency, resolution and analysis time.

Reference: Electrophoresis. 2009 Nov;30(21):3748-56. <https://pubmed.ncbi.nlm.nih.gov/19816888/>

In vivo activity

TBD

Note: The information listed here was extracted from literature. MedKoo has not independently retested and confirmed the accuracy of these methods. Customer should use it just for a reference only.