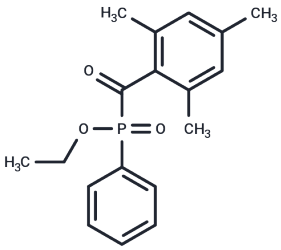
Data Sheet (Cat.No.TCL-00038)

TPO-L

Chemical Properties



CAS No. : 84434-11-7

Formula: C18H21O3P

Molecular Weight: 316.33

Storage: Keep away from direct sunlight
Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	TPO-L is a photoinitiator used in 3D printing resins, facilitating two-photon induced polymerization. The two-photon absorption cross-section spectrum of Lucirin TPO-L exhibits a peak of 1.2 GM at 610 nm. Although the two-photon absorption cross-section is relatively small, Lucirin TPO-L demonstrates a high polymerization quantum yield.
Targets(IC50)	Others

Solubility Information

Solubility	DMSO: ≥ 140,Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.1613 mL	15.8063 mL	31.6126 mL
5 mM	0.6323 mL	3.1613 mL	6.3225 mL
10 mM	0.3161 mL	1.5806 mL	3.1613 mL
50 mM	0.0632 mL	0.3161 mL	0.6323 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Steyrer B, et al. Visible Light Photoinitiator for 3D-Printing of Tough Methacrylate Resins. Materials (Basel). 2017 Dec 19;10(12):1445.

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