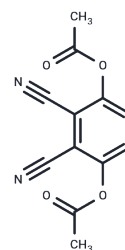


## 3,6-diacetoxy Phthalonitrile

## Chemical Properties

CAS No. :	83619-73-2
Formula:	C <sub>12</sub> H <sub>8</sub> N <sub>2</sub> O <sub>4</sub>
Molecular Weight:	244.206
Storage:	Keep away from direct sunlight Powder: -20°C for 3 years   In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



## Biological Description

Description	3,6-diacetoxy Phthalonitrile is a fluorescent probe for monitoring intracellular pH by flow cytometry in living cells. It rapidly crosses cell membranes and is cleaved by cytosolic esterases to form the fluorescent pH indicator 2,3-dicyano-hydroquinone (DCH), which is excited at UV wavelengths. DCH can be excited at 351 nm, with pH-dependent emission in the range of 450-476 nm (pH 5.0-10.0) using a potassium-based buffer.
Targets(IC50)	Others

## Solubility Information

Solubility	DMSO: 30 mg/mL (122.85 mM),Sonication is recommended. DMF: 30 mg/mL (122.85 mM),Sonication is recommended. DMSO:PBS(pH7.2) (1:1): 0.5 mg/mL (2.05 mM),Sonication is recommended. ( < 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.0948 mL	20.4742 mL	40.9484 mL
5 mM	0.819 mL	4.0948 mL	8.1897 mL
10 mM	0.4095 mL	2.0474 mL	4.0948 mL
50 mM	0.0819 mL	0.4095 mL	0.819 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.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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