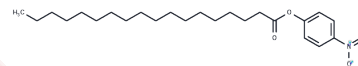


4-Nitrophenyl stearate

Chemical Properties

CAS No. :	14617-86-8
Formula:	C ₂₄ H ₃₉ NO ₄
Molecular Weight:	405.5708
Storage:	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	4-Nitrophenyl stearate is an ester formed from the condensation of stearic acid and 4-nitrophenol. It is commonly used as a substrate in enzymatic assays, where the hydrolysis of the ester bond by esterases and lipases can be monitored through absorbance or colorimetric changes. Additionally, 4-Nitrophenyl stearate serves as a model compound to study the enzymatic activity and selectivity of lipases and esterases from various sources. Its long hydrophobic tail enhances solubility in lipophilic environments, making it a valuable probe for researching lipid metabolism.
Targets(IC50)	Others

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.4657 mL	12.3283 mL	24.6567 mL
5 mM	0.4931 mL	2.4657 mL	4.9313 mL
10 mM	0.2466 mL	1.2328 mL	2.4657 mL
50 mM	0.0493 mL	0.2466 mL	0.4931 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.

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