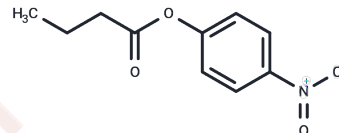


4-Nitrophenyl butyrate

Chemical Properties

CAS No. :	2635-84-9
Formula:	C ₁₀ H ₁₁ NO ₄
Molecular Weight:	209.1986
Storage:	Pure form: -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 butyrate is composed of a butyric acid chain esterified with a 4-nitrophenol group, giving it a yellow appearance. This compound is commonly used as a substrate in enzyme assays to measure the activity of esterases and lipases. When these enzymes cleave the ester bond, the nitrophenol group is released, changing the color from yellow to orange. The rate of this color change can be used to determine enzyme activity. Additionally, 4-Nitrophenyl butyrate serves as a reagent in organic synthesis and as an intermediate in dye production.
Targets(IC50)	Others

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.7801 mL	23.9006 mL	47.8011 mL
5 mM	0.956 mL	4.7801 mL	9.5602 mL
10 mM	0.478 mL	2.3901 mL	4.7801 mL
50 mM	0.0956 mL	0.478 mL	0.956 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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