SZABO SCANDIC

Part of Europa Biosite

Produktinformation

- Forschungsprodukte & Biochemikalien
- Zellkultur & Verbrauchsmaterial
- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!

Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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4-Nitrophenyl butyrate

Cat. No.: HY-W014449

CAS No.: 2635-84-9

Molecular Formula: $C_{10}H_{11}NO_4$

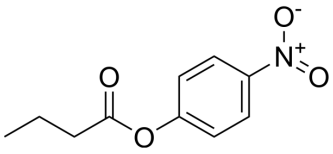
Molecular Weight: 209.2

Target: Biochemical Assay Reagents

Pathway: Others

Storage:

Pure form	-20°C	3 years
	4°C	2 years
In solvent	-80°C	6 months
	-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (478.01 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	4.7801 mL	23.9006 mL	47.8011 mL
	5 mM	0.9560 mL	4.7801 mL	9.5602 mL
	10 mM	0.4780 mL	2.3901 mL	4.7801 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

1. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (11.95 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (11.95 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

4-Nitrophenyl butyrate consists of butyric acid chains esterified with 4-nitrophenol groups, thus giving it a yellow color. This compound is commonly used as a substrate in enzyme assays to measure esterase and lipase activity. When these enzymes cleave the ester bond, the nitrophenol group is released and the color changes from yellow to orange. Thus, the rate of color change can be used to determine enzyme activity. In addition, 4-Nitrophenyl butyrate can also be used as organic synthesis reagent and dye intermediate.

In Vitro

4-Nitrophenyl butyrate is a biochemical reagent that can be used as a biological material or organic compound for life science related research.

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Caution: Product has not been fully validated for medical applications. For research use only.

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