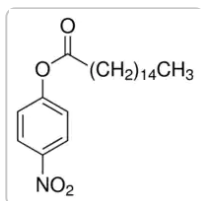


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N2752 ▶ **Sigma-Aldrich**

4-Nitrophenyl palmitate

★★★★★ (0)

lipase substrate

Synonyme(s):

p-Nitrophenyl palmitate, Hexadecanoic acid 4-nitrophenyl ester

Empirical Formula (Hill Notation):

C₂₂H₃₅NO₄

Numéro CAS: **1492-30-4**

Poids moléculaire: 377.52

Beilstein: 1891754

Numéro EC: **216-084-9**

Numéro MDL: **MFCD00047732**

ID de substance PubChem: **24897590**

NACRES: NA.83

Référence	Conditionnement	Disponibilité	Prix	Quantité
N2752-1G	1 G	✓ Only 5 left in stock (more on the way) Détails...	66,20 €	− +
N2752-5G	5 G	✓ Only 5 left in stock (more on the way) Détails...	242,00 €	− +

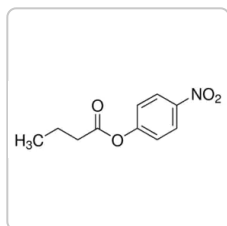
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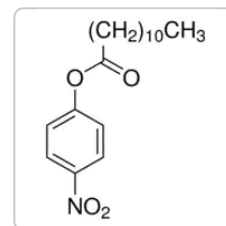
PRODUITS RECOMMANDÉS



Sigma-Aldrich

N9876**4-Nitrophenyl butyrate**

≥98%

[Consulter le prix et la disponibilité](#)

Sigma-Aldrich

61716**4-Nitrophenyl dodecanoate**

≥98.0% (GC)

[Consulter le prix et la disponibilité](#)

PROPRIÉTÉS

Niveau de qualité 200

Essai/Dosage ≥98% (TLC)

Forme powder

Solubilité chloroform: 100 mg/mL, clear, colorless to faintly yellow

Temp. de stockage -20°C

SMILES string CCCCCCCCCCCCCCCC(=O)Oc1ccc(cc1)[N+](=[O-])=O

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InChI key

LVZSQWIWCANHPF-UHFFFAOYSA-N

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DESCRIPTION

Description générale

4-Nitrophenyl palmitate is a substrate for lipase enzyme activity. Lipase hydrolyzes 4-nitrophenyl palmitate and yields the yellow colored product 4-nitrophenol, which is measurable spectrophotometrically at 410 nm. This method is advantageous due to its short reaction time and facile spectrophotometric analyses. The cell-bound lipase has preference for 4-nitrophenyl palmitate as substrate than the extracellular lipase.

Application

4-nitrophenyl palmitate has been used as a substrate for lipase enzyme activity.

Conditionnement

1, 5 g in poly bottle

INFORMATIONS SUR LA SÉCURITÉ

Pictograms**Mention d'avertissement****Mentions de danger****Conseils de prudence**

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Skin Sens. 1

Code de la classe de stockage

13 - Non Combustible Solids

WGK

WGK 3

Flash Point(F)

Not applicable

Point d'éclair C

Not applicable

Équipement de protection individuelle

dust mask type N95 (US),
Eyeshields, Faceshields,
Gloves

DOCUMENTATION

Certificat d'analyse

Saisir un numéro de lot pour rechercher un certificat d'analyse (COA).

Numéro de lot

e.g. 023J5431

Comment saisir un numéro de lot (COA)**Rechercher****Certificat d'origine**

Saisir un numéro de lot pour rechercher un certificat d'origine (COO).

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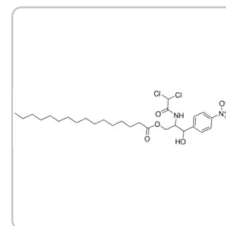
Sigma-Aldrich

MAK046

Lipase Activity Assay Kit

sufficient for 100 colorimetric tests
(with glycerol standard)

Consulter le prix et la disponibilité



PH000102

**2-[(DICHLOROACETYL)AMINO]-3-HYDROXY-
3-(4-NITROPHENYL)PROPYL PALMITATE**

Aldrich^{CPR}

Consulter le prix et la disponibilité

ARTICLES REVUS PAR DES PAIRS

A robust nanobiocatalyst based on high performance lipase immobilized to novel synthesised poly(o-toluidine) functionalized magnetic nanocomposite: Sterling stability and application.

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magnetic nanocomposite (Fe₃O₄@POT) was employed

Effect of culture conditions on lipase production by *Fusarium solani* in batch fermentation.

M M Maia et al.

Bioresource technology, 76(1), 23-27 (2001-04-24)

Lipase (Glycerol ester hydrolase EC 3.1.1.3.) from a Brazilian strain of *Fusarium solani* FSI has been investigated. The effect of different carbon sources and trace elements added to basal medium was observed with the aim of improving enzyme production. Lipase

Lipase and biosurfactant from *Ochrobactrum intermedium* strain MZV101 isolated by washing powder for detergent application

Zarinviarsagh M, et al.

Lipids in Health and Disease, 16(1), 177-177 (2017)

Screening for novel lipolytic enzymes from uncultured soil microorganisms.

Seon-Woo Lee et al.

Applied microbiology and biotechnology, 65(6), 720-726 (2004-09-15)

The construction and screening of metagenomic libraries constitute a valuable resource for obtaining novel biocatalysts. In this work, we present the construction of a metagenomic library in *Escherichia coli* using fosmid and microbial DNA directly isolated from forest topsoil and

Combining metabolic flux analysis and adaptive evolution to enhance lipase production in *Bacillus subtilis*.

Kai Yuan et al.

Journal of industrial microbiology & biotechnology, 46(8), 1091-1101 (2019-06-21)

Metabolic fluxes during lipase production by *Bacillus subtilis* CICC 20034 in synthetic medium were studied using metabolic flux analysis (MFA). The MFA showed that lipase production was dependent on, and coupled to the tributyrin uptake rate, formation of biomass, lactate

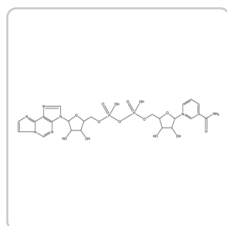
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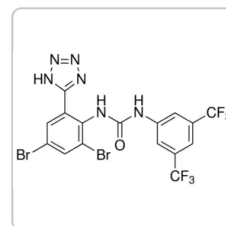
Sigma-Aldrich

N2630

Nicotinamide 1,N⁶-ethenoadenine dinucleotide

≥98%

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Sigma-Aldrich

N2540

NS5806

≥98% (HPLC)

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