Creative Enzymes®

4-Nitrophenyl butyrate

Cat. No. CSUB-0692

Lot. No. (See product label)

Introduction

Description	4-Nitrophenyl butyrate is a nitro-substituted phenolic ester compound. 4-Nitrophenyl butyrate is water-soluble and is tolerated as a substrate by lipase enzymes, making it a useful probe for lipase activity. Hydrolysis of 4-Nitrophenyl butyrate by the enzyme produces p-nitrophenoxide which can be monitored by UV-Vis spectrophotometry at 400 nm. This approach has specifically been used to assess the activities of both cholesterol esterase and lipoprotein lipase and 4-Nitrophenyl butyrate has also been employed as a probe for screening the lipolytic activity of novel microorganism strains.
Applications	A probe for lipase activity
Synonyms	Butyric acid 4-nitrophenyl ester

Product Information

Form	Liquid
CAS No.	2635-84-9
Molecular Formula	C10H11NO4
Molecular Weight	209.2
Substrates	Lipase; Esterase

Storage and Shipping Information

Storage	Store at -20° C