

Esterase PL

Carboxylesterase
EC 3.1.1.1

Description:	Esterase for enantioselective splitting of esters from primary alcohols and short-chain carbonic acids. Esterification of primary alcohols with short- and long-chain carbonic acids.	
Reaction:	carboxylic ester + H ₂ O $\xrightarrow{\text{PL}}$ alcohol + carboxylate	
Origin:	porcine liver	
Application:	organic synthesis	
Activity:	> 150 U/g(method: ASA Spezialenzyme GmbH)	
Specific activity:	> 1.5 U/mg	
Esterification:	<ol style="list-style-type: none">1) primary alcohols with short- and long-chain carbonic acids examples: propanol + oleic acid octanol + phthalic acid / tartaric acid2) secondary alcohols with short-chain carbonic acids: example: menthol + acetic acid3) amino acids with short-chain carbonic acids: example: cysteine + acetic acid	
Parameters of reaction:	<u>pH</u>	optimum 6.0
	<u>temperature</u>	optimum 60°C
Order-No.:	2410	
Form of delivery:	light brown powder	
Storage:	-20°C	