Esterase&Lipase (PLE&CALB)

Cat. No. PLE&CALB-19 **Lot. No.** (See product label)

SPECIFICATION

Product Overview	
Description	PLEs: A class of hydrolases that catalyze the formation and breakage of ester bonds. They can take part in many kinds of biochemical reactions, such as esterification, transesterification and hydrolysis. They are widely used in many fields such as food processing, chemical industry, biomedicine, chiral medicine and environmental treatment. PLE can be used for the hydrolysis of aliphatic and ester compounds, or regioselective and stereoselective resolution to synthesize chiral acids and their derivatives.
Applications	1. Normally, the reaction system should include substrate, buffer solution and the PLE. The esterification of some PLEs is carried out in the organic phase. 2. All kinds of PLEs corresponding to various optimum reaction conditions should be studied individually.
Notes	Never contact with extreme conditions such as: high temperature, high/low pH.
Storage	Keep 2 years below -20 centigrade.
Advantages	1. High substrate specificity. 2. Strong chiral selectivity. 3. High conversion. 4. Less by-products. 5. Mild reaction conditions. 6. Environmentally friendly.

GENE INFORMATION

Official Symbol	PLE&CALB

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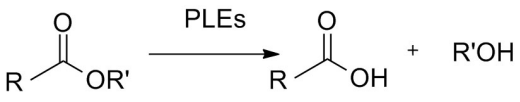
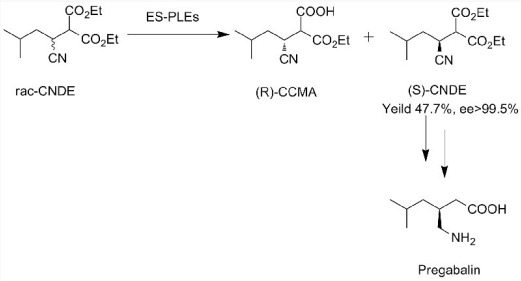
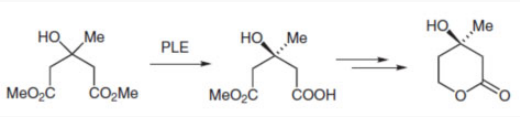
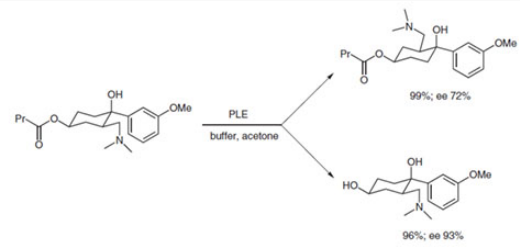
Synonyms	Esterase&Lipase; PLE&CALB
Catalytic reaction type	
Application Examples	 Biosynthesis of Pregabalin Intermediate
Application Examples	
Application Examples	

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