

Carboxylic acid reductase (CAR)

Cat. No. CAR-40 **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Description	CAR (Carboxylic acid reductase): catalyzes the reduction of carboxyl group to aldehyde group. In the catalytic process, ATP activation and coenzyme NADPH are required as hydrogen transporters.
Applications	1. Normally, the reaction system should include substrate, buffer solution, enzyme, coenzyme, ATP. 2. CAR should be added last into reaction system, after the pH and temperature been adjusted to the reaction condition.
Notes	Never contact with extreme conditions such as: high temperature, high/low pH and high concentration organic solvent.
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

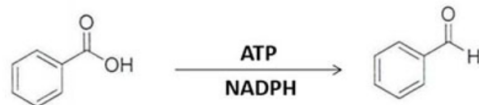
Official Symbol	CAR
Synonyms	Carboxylic acid reductase; CAR

 Tel: 1-631-559-9269 1-516-512-3133

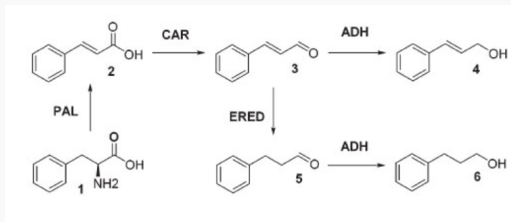
 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Catalytic reaction
type



Application
Examples



Synthesis of cinnamyl alcohol from phenylalanine

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