

## Carboxylic acid reductase (CAR)

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

### SPECIFICATION

#### Product Overview

|                     |                                                                                                                                                                                                                            |
|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Description</b>  | 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.                           |
| <b>Applications</b> | 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. |
| <b>Notes</b>        | Never contact with extreme conditions such as: high temperature, high/low pH and high concentration organic solvent.                                                                                                       |
| <b>Storage</b>      | Keep 2 years below -20 centigrade.                                                                                                                                                                                         |
| <b>Advantages</b>   | 1. High substrate specificity. 2. Strong chiral selectivity. 3. High conversion. 4. Less by-products. 5. Mild reaction conditions. 6. Environmentally friendly.                                                            |

### GENE INFORMATION

|                        |                                |
|------------------------|--------------------------------|
| <b>Official Symbol</b> | CAR                            |
| <b>Synonyms</b>        | Carboxylic acid reductase; CAR |

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

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

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