

Benzaldehyde lyase (BAL)

Cat. No. BAL-42 **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Description	BAL (Benzaldehyde lyase): a kind of enzyme that catalyze hydroxymethylation of aromatic and aliphatic aldehydes with formaldehyde to produce the corresponding α -Hydroxymethyl ketone. BAL is thiamine diphosphate (ThDP) – dependent enzyme.
Applications	1. Normally, the reaction system should include substrate, buffer solution, enzyme, ThDP, Mg^{2+} . 2. BAL 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

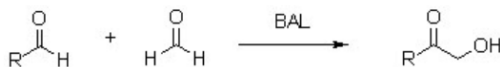
Official Symbol	BAL
Synonyms	Benzaldehyde lyase; BAL

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

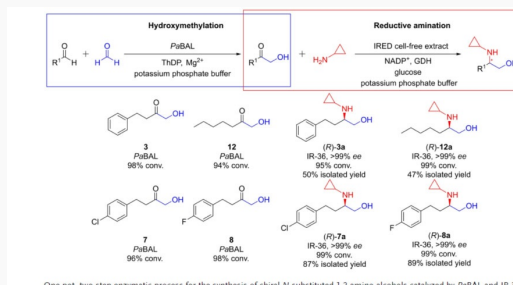
 Email: info@creative-biomart.com  Fax: 1-631-938-8127

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

Catalytic reaction type



Application Examples



Synthesis of *N*-substituted 1,2 amino alcohols from aldehydes

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