

Imine reductase (IRED)

Cat. No. IRED-25 **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Description	IRED: A class of enzymes that catalyze the reduction of C=N bond to C-N bond. It belongs to redox enzyme, with coenzyme NADPH for hydrogen transportation. According to the chiral preference of the products, they can be divided into R-IRED and S-IRED.
Applications	1. Normally, the reaction system should include substrate, buffer solution, enzyme, coenzyme, and coenzyme regeneration system. 2. All kinds of IREDs corresponding to various optimum reaction conditions should be studied individually. 3. High concentration Substrate or product with may inhibit IRED's activity. However, the inhibition can be relieved by batch addition of substrate.
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 IRED

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

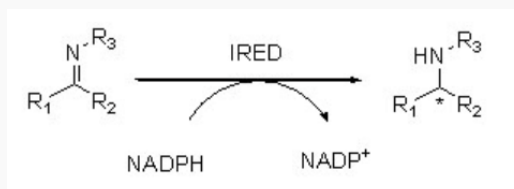
 Email: info@creative-biomart.com  Fax: 1-631-938-8127

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

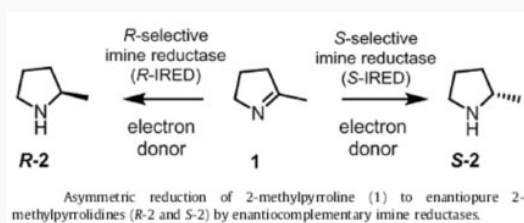
Synonyms

Imine reductase; IRED

Catalytic reaction type

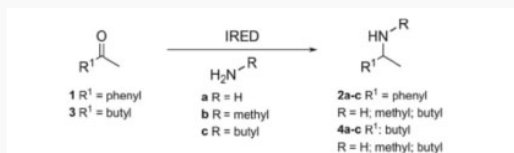


Application Examples



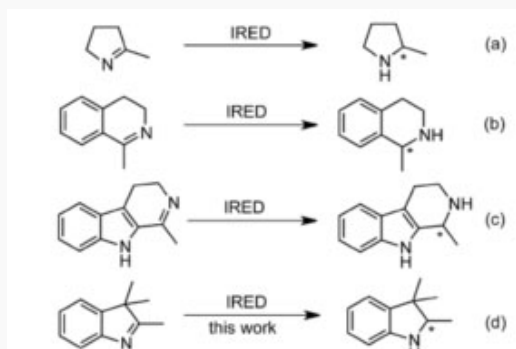
Biosynthesis of chiral 2-methyl pyrrolidine

Application Examples



Biosynthesis of secondary amine

**Application
Examples**



Reduction of Cyclic Imines