

Phenylalanine dehydrogenase (PDH)

Cat. No. PDH-41 Lot. No. (See product label)

SPECIFICATION

Product Overview

Description	PDH: A class of oxidoreductase. The positive reaction can catalyze the oxidative deamination of L phenylalanine salt in the presence of NAD to produce phenylpyruvate salt, and the reverse reaction can catalyze the synthesis of corresponding amino acid salt from phenylpyruvate salt.
Applications	1. Normally, the reaction system should include substrate, buffer solution, enzyme, coenzyme (NAD(H)), coenzyme regeneration system (e.g. ammonium formate and formate dehydrogenase). 2. Each kind of PDH corresponding to various optimum reaction conditions, which could be studied individually if needed. 3. The PDH should be added last into reaction system to maintain the activity.
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	PDH
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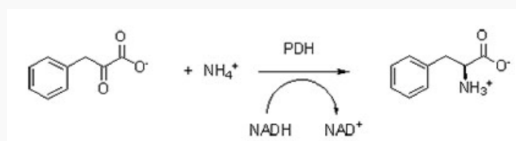
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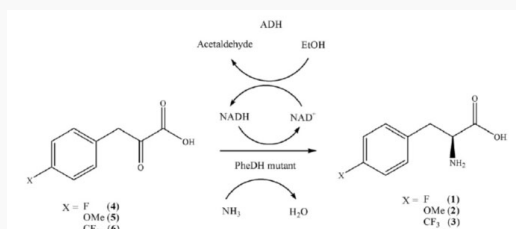
Synonyms

Phenylalanine dehydrogenase; PDH

Catalytic reaction type



Application Examples



Biosynthesis of phenylalanine derivatives from phenylpyruvate derivatives

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