

Nitrile reductase (NRED)

Cat. No. NRED-26 Lot. No. (See product label)

SPECIFICATION

Product Overview

Description

NRED can catalyze the reduction of nitrile group to amine. In the process of catalysis, NADPH is needed as hydrogen transporter.

Instructions and Precautions

The following reaction system could be used for reference: 1-10 mg/mL Substrate, 10 mg/mL Enzyme, 10% (v/v) Organic cosolvent, 100 mM Phosphate buffer (pH 7.0), 0.2 mg/mL NADP⁺, 10 mg/mL Glucose, 2 mg/mL Glucose dehydrogenase (GDH)
Incubate the reactions at a constant temperature shaker (for example, 30 centigrade, 150 rpm) in for 24~48 hours. Centrifuge each mixture to precipitate protein, then the supernatant can be used for TLC, HPLC or GC analysis. Note: Organic solvent (such as DMSO, methanol, acetonitrile, IPA, etc.) is optional, used for insoluble substrates.

GENE INFORMATION

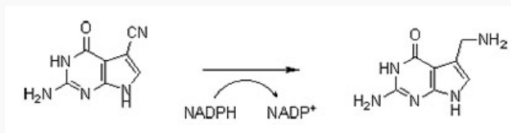
Official Symbol

NRED

Synonyms

Nitrile reductase; NRED

Nitrile reductase catalytic reaction type



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