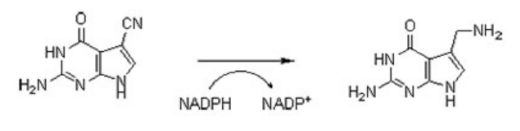
Nitrile reductase (NRED)

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, them 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 reductasecatalytic reaction type	

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