Oxynitrilases (HNL)

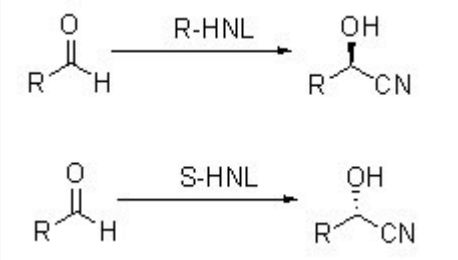
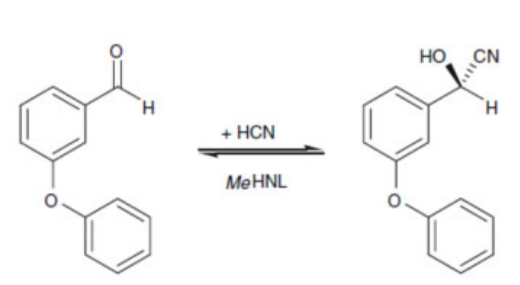
Cat. No. HNL-13 **Lot. No.** (See product label)

SPECIFICATION

Product Overview	
Description	HNLs: An class enzyme that enantioselectively catalyze the addition of HCN to aldehydes (ketones) to obtain R or S type cyanide alcohols, which can be easily converted into many kinds of drugs or drug intermediates through chemical method. HNL is a useful tool to regio- and stereo- selective synthesis of (R)-cyanohydrins or (S)-cyanohydrins from a variety of aromatic, aliphatic and heterocyclic aldehydes or even ketones.
Applications	1. Normally, the reaction system should include substrate (aldehydes / ketones, HCN), buffer solution (optimum reaction pH) and the enzymes. 2. All the HNLs can be tested respectively in the reaction system above or with the HNL Screening Kit. 3. All kinds of HNLs corresponding to various optimum reaction conditions should be studied individually. 4. High concentration Substrate or product with may inhibit HNL'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

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Official Symbol	HNL
Synonyms	Oxynitrilases; HNL
Catalytic reaction type	
Application Examples	

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