

Nitrile hydratase (NHT)

Cat. No. NHT-10 Lot. No. (See product label)

SPECIFICATION

Product Overview

Description	NHTs: a class of metalloenzyme, which selectively hydrate nitriles into the corresponding primary amide. They are widely used not only for the synthesis of amino acids, amides, carboxylic acids and their derivatives, but also for the preparation of chiral drugs.
Applications	1. Normally, the reaction system should include substrate, buffer solution (optimum reaction pH) and NHT. 2. All the NHTs can be tested respectively in the reaction system above or with the NHT Screening Kit. 3. All kinds of NHTs corresponding to various optimum reaction conditions should be studied individually. 4. High concentration Substrate or product with may inhibit NHT's activity. However, the inhibition can be relieved by batch addition of substrate, coupling with the amidases or product extraction.
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

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

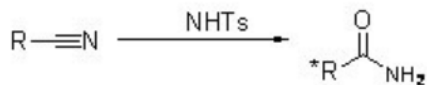
 Email: info@creative-biomart.com  Fax: 1-631-938-8127

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

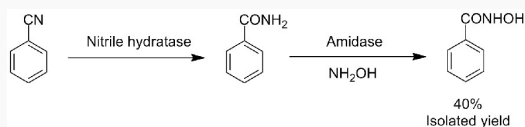
Official Symbol NHT

Synonyms Nitrile hydratase; NHT

Catalytic reaction type

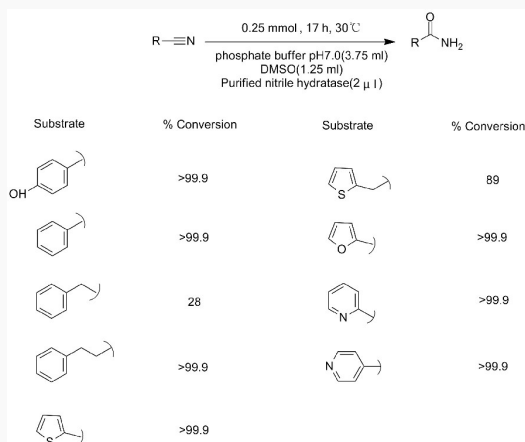


Application Examples



Coupling with the amidase

Application Examples



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