

Nitrile hydratase from Rhodococcus erythropolis, Recombinant

Cat. No. NATE-1217

Lot. No. (See product label)

Introduction

Description In enzymology, nitrile hydratases (NHases; EC 4.2.1.84) are mononuclear iron or non-corrinoid cobalt

enzymes that catalyse the hydration of diverse nitriles to their corresponding amides: $R-C\equiv N + H2O \rightarrow R-C$

C(O)NH2.

Synonyms Nitrilase; 3-cyanopyridine hydratase; NHase; L-NHase; H-NHase; acrylonitrile hydratase; aliphatic nitrile

hydratase; nitrile hydro-lyase; aliphatic-amide hydro-lyase (nitrile-forming)

Product Information

Source Rhodococcus erythropolis AJ270

Form Supplied as a freeze-dried CFE powder.

EC Number EC 4.2.1.84

CAS No. 82391-37-5

Molecular

23487.3 Da (α-subunit), 25159.4 Da (β-subunit)

Weight

Purity > 95 % as judged by SDS-PAGE

Activity > 4 U/mg (freeze-dried CFE)

Unit Definition One unit is defined as the amount of enzyme required to release 1 µmol of methacrylamide from methocrylonitrile (10 mM) per minute in 100 mM KH2PO4 buffer, pH 7.0, at 25°C, as measured at 224

nm.

Usage and Packaging

Preparation Agitate vial sufficiently to fully homogenise enzyme precipitate before use.

Instructions

Storage and Shipping Information

Storage Store at -20°C (shipped at ambient temperature)

Tel: 1-631-562-8517 1-516-512-3133 **Email:** info@creative-enzymes.com

1/1