

Nitrile hydratase from Rhodopseudomonas palustris, Recombinant

Cat. No. NATE-1218

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≡N + H2O →

R-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 Rhodopseudomonas palustris CGA009

Form Supplied in 3.2 M ammonium sulphate

EC Number EC 4.2.1.84

CAS No. 82391-37-5

Molecular

25878.9 Da (α-subunit), 24204.3 Da (β-subunit)

Weight

Purity > 95 % as judged by SDS-PAGE

Activity 21.97 U/mg

Concentration 112.05 U/ml

Unit Definition One unit is defined as the amount of enzyme required to release 1 μ mol 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 4°C (shipped at room temperature)

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

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