

Hydroxynitrile Lyase from Arabidopsis thaliana, Recombinant

Cat. No. NATE-1914

Lot. No. (See product label)

Introduction

Description

Hydroxynitrile lyases (Oxynitrilases) catalyze the addition of HCN to aldehydes and ketones thereby forming α -hydroxynitriles, also known as cyanohydrins. Hydroxynitrile Lyase from Arabidopsis thaliana, is used to hydrolyze mandelonitrile.

Applications

Hydroxynitrile lyases (Oxynitrilases) are used for various biotransformation processes and to convert a broad range of substrates. They may be used with bacterial nitrilases to generate biocatalysts.

Synonyms

hydroxynitrile lyase; oxynitrilase; Sorghum hydroxynitrile lyase; (S)-4-hydroxymandelonitrile hydroxybenzaldehyde-lyase

Product Information

Species

Arabidopsis thaliana

Source

E. coli

EC Number

EC 4.1.2.11

CAS No.

9075-38-1

Activity

>500 U/mL

Unit Definition

1 U corresponds to the amount of enzyme which converts 1 μ mol mandelonitrile per minute at pH 5.0 and 25°C.

Storage and Shipping Information

Storage

at -20°C