

## 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  $\alpha$ -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  $\mu$ mol mandelonitrile per minute at pH 5.0 and 25°C.

### Storage and Shipping Information

**Storage** at -20°C