Creative Enzymes®

(S)-hydroxynitrile lyase

Cat. No. EXWM-4883

Lot. No. (See product label)

Introduction

Description	Hydroxynitrile lyases catalyses the the cleavage of hydroxynitriles into cyanide and the corresponding aldehyde or ketone. In nature the liberation of cyanide serves as a defense mechanism against herbivores and microbial attack in plants. In vitro the enzymes from Manihot esculenta and Hevea brasiliensis accept a broad range of aliphatic and aromatic carbonyl compounds as substrates and catalyse the formation of (S)-hydroxynitriles.
Synonyms	(S)-cyanohydrin producing hydroxynitrile lyase; (S)-oxynitrilase; (S)-HbHNL; (S)-MeHNL; hydroxynitrile lyase; oxynitrilase; HbHNL; MeHNL; (S)-selective hydroxynitrile lyase; (S)-cyanohydrin carbonyl-lyase (cyanide forming)

Product Information

Form	Liquid or lyophilized powder
EC Number	EC 4.1.2.47
Reaction	(1) an aliphatic (S)-hydroxynitrile = cyanide + an aliphatic aldehyde or ketone; (2) an aromatic (S)-hydroxynitrile = cyanide + an aromatic aldehyde
Notes	This item requires custom production and lead time is between 5-9 weeks. We can custom produce according to your specifications.

Storage and Shipping Information

Storage	Store it at +4 ℃ for short term. For long term storage, store it at -20 ℃~-80 ℃.