Creative Enzymes®

cyanohydrin β-glucosyltransferase

Cat. No. EXWM-2625

Lot. No. (See product label)

Introduction

Description	Acts on a wide range of substrates in vitro, including cyanohydrins, terpenoids, phenolics, hexanol derivatives and plant hormones, in a regiospecific manner. This enzyme is involved in the biosynthesis of the cyanogenic glucoside dhurrin in sorghum, along with EC 1.14.13.41, tyrosine N-monooxygenase and EC 1.14.13.68, 4-hydroxyphenylacetaldehyde oxime monooxygenase. This reaction prevents the disocciation and release of toxic hydrogen cyanide.
Synonyms	uridine diphosphoglucose-p-hydroxymandelonitrile glucosyltransferase; UDP-glucose-p-hydroxymandelonitrile glucosyltransferase; uridine diphosphoglucose-cyanohydrin glucosyltransferase; uridine diphosphoglucose:aldehyde cyanohydrin β-glucosyltransferase; UDP-glucose:(S)-4-hydroxymandelonitrile β-D-glucosyltransferase; UGT85B1; UDP-glucose:p-hydroxymandelonitrile-O-glucosyltransferase

Product Information

Form	Liquid or lyophilized powder
EC Number	EC 2.4.1.85
CAS No.	55354-52-4
Reaction	UDP-D-glucose + (S)-4-hydroxymandelonitrile = UDP + (S)-4-hydroxymandelonitrile β-D-glucoside
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 ℃.