Creative Enzymes®

2,4-dihydroxy-7-methoxy-2H-1,4-benzoxazin-3(4H)-one 2-D-glucosyltransferase

Cat. No. EXWM-2430

Lot. No. (See product label)

Introduction

Description	The enzyme is involved in the detoxification of the benzoxazinoids DIBOA (2,4-dihydroxy-2H-1,4-benzoxazin-3(4H)-one) and DIMBOA (2,4-dihydroxy-7-methoxy-2H-1,4-benzoxazin-3(4H)-one) which are stored as the respective non-toxic glucosides in the vacuoles in some plants, most commonly from the family of Poaceae (grasses). Benzoxazinoids are known to exhibit antimicrobial, antifeedant, and antiinsecticidal effects and are involved in the interaction of plants with other plants, insects, or microorganisms.
Synonyms	uridine diphosphoglucose-2,4-dihydroxy-7-methoxy-2H-1,4-benzoxazin-3(4H)-one 2-glucosyltransferase; BX8; BX9; benzoxazinoid glucosyltransferase; DIMBOA glucosyltransferase

Product Information

Form	Liquid or lyophilized powder
EC Number	EC 2.4.1.202
CAS No.	122544-56-3
Reaction	(1) UDP-α-D-glucose + 2,4-dihydroxy-7-methoxy-2H-1,4-benzoxazin-3(4H)-one = UDP + (2R)-4-hydroxy-7-methoxy-3-oxo-3,4-dihydro-2H-1,4-benzoxazin-2-yl β-D-glucopyranoside; (2) UDP-α-D-glucose + 2,4-dihydroxy-2H-1,4-benzoxazin-3(4H)-one = UDP + (2R)-4-hydroxy-3-oxo-3,4-dihydro-2H-1,4-benzoxazin-2-yl β-D-glucopyranoside
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 ℃.