

4-Methylumbelliferyl- β -D-Glucuronide (hydrate)

Cat. No. NATZ-101

Lot. No. (See product label)

Introduction

Description

4-Methylumbelliferyl- β -D-glucuronide is a fluorogenic substrate of β -glucuronidase. 4-Methylumbelliferyl- β -D-glucuronide is cleaved by β -glucuronidase to release the fluorescent moiety 4-methylumbelliferyl (4-MU). 4-MU fluorescence is pH-dependent with excitation maxima of 320 and 360 nm at low (1.97-6.72) and high (7.12-10.3) pH, respectively, and an emission maximum ranging from 445 to 455 nm, increasing as pH decreases. 4-Methylumbelliferyl- β -D-glucuronide has been used in the β -glucuronidase reporter system, also known as the GUS reporter system, for fluorescent detection of β -glucuronidase gene expression in E. coli and transformed plants.

Synonyms

4-Methylumbelliferyl- β -D-Glucopyranosiduronic Acid MUG

Product Information

Form	A crystalline solid
Molecular Formula	C ₁₆ H ₁₆ O ₉ • 2H ₂ O
Molecular Weight	388.3
Purity	95%

Storage and Shipping Information

Storage	-20°C
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