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Zuschläge

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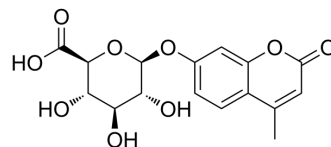
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4-Methylumbelliferyl- β -D-glucuronide

Cat. No.:	HY-D0935
CAS No.:	6160-80-1
Molecular Formula:	C ₁₆ H ₁₆ O ₉
Molecular Weight:	352.29
Target:	Fluorescent Dye
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	4-Methylumbelliferyl- β -D-glucuronide is a fluorogenic substrat (λ_{ex} =362 nm, λ_{em} =445 nm). 4-Methylumbelliferyl- β -D-glucuronide has potential applications in detecting the activity of β -glucuronidase and the number of Escherichia coli ^{[1][2][3]} .
In Vitro	4-Methylumbelliferyl- β -D-glucuronide (156 μ M-5 mM; 30 min) releases 4-methylumbelliferone at 37°C for enzymatic reactions ^[2] . 4-Methylumbelliferyl- β -D-glucuronide (50 μ g/mL; 24 h) is used to detect the number of Escherichia coli in TSA medium ^[3] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. George I, et al. Use of beta-D-galactosidase and beta-D-glucuronidase activities for quantitative detection of total and fecal coliforms in wastewater. Can J Microbiol. 2001 Jul;47(7):670-5.
- [2]. Sperker B, et al. High-performance liquid chromatographic quantification of 4-methylumbelliferyl-beta-D-glucuronide as a probe for human beta-glucuronidase activity in tissue homogenates. J Chromatogr B Biomed Appl. 1996 Oct 11;685(1):181-4.
- [3]. Villari P, et al. An evaluation of the use of 4-methylumbelliferyl-beta-D-glucuronide (MUG) in different solid media for the detection and enumeration of Escherichia coli in foods. Lett Appl Microbiol. 1997 Apr;24(4):286-90.

Caution: Product has not been fully validated for medical applications. For research use only.

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