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Forschungsprodukte & Biochemikalien



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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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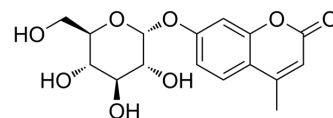
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4-Methylumbelliferyl- α -D-Glucopyranoside

Cat. No.:	HY-137873
CAS No.:	17833-43-1
Molecular Formula:	C ₁₆ H ₁₈ O ₈
Molecular Weight:	338.31
Target:	Fluorescent Dye
Pathway:	Others
Storage:	4°C, stored under nitrogen * In solvent : -80°C, 6 months; -20°C, 1 month (stored under nitrogen)



BIOLOGICAL ACTIVITY

Description

4-Methylumbelliferyl- α -D-Glucopyranoside (4-Methylumbelliferyl- α -D-Glucose; 4-Methylumbelliferyl- α -D-Glucoside) is a fluorogenic substrate for α -glucosidase. 4-Methylumbelliferyl- α -D-glucopyranoside is cleaved by α -glucosidase 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 pH (7.12-10.3), respectively, and an emission maximum ranging from 445 to 455 nm, increasing as pH decreases. 4-Methylumbelliferyl- α -D-glucopyranoside has been used to quantify α -glucosidase activity in infant blood spot samples as a biomarker of Fabry and Pompe diseases, lysosomal storage disorders characterized by a deficiency in the enzyme.

REFERENCES

[1]. Zhi, et al. Fluorescent properties of hymecromone and fluorimetric analysis of hymecromone in compound dantong capsule. J. Spectrosc. 147128 (2013).

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

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