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MUG

MUG (4-MU-glcUA; 4-Methylumbelliferyl-β-D-glucuronic acid dihydrate), also known as MUGlcU, is a fluorogenic β-glucuronidase substrate that releases the blue fluorescent 4-methyl-7-hydroxycoumarinon enzymatic hydrolysis. The substrate is commonly used for identifying E. coli contamination and for detecting marker GUS gene expression in plants with high sensitivity.

Product attributes

CAS number	6160-80-1
Excitation/Emission	360/450 nm (end product)

Product Description

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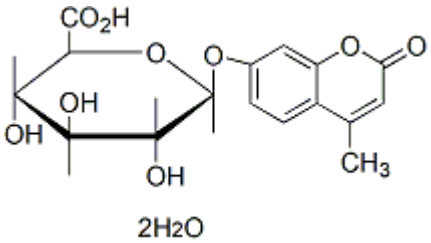
- $\lambda_{Ex}/\lambda_{Em}$= 360/450 nm (end product)
- White solid soluble in DMSO
- Store desiccated at ≤4 °C and protect from light
- $C_{16}H_{16}O_9 \cdot 2H_2O$
- MW: 388.3
- [6160-80-1]



References

1. BioTechniques 8, 39 (1990).

2. Plant Mol. Biol. Rep. 5, 387 (1987).