4-Methylumbelliferyl-β-D-xylopyranoside

Cat. No.: HY-137824

CAS No.: 6734-33-4

Molecular Formula: $C_{15}H_{16}O_7$

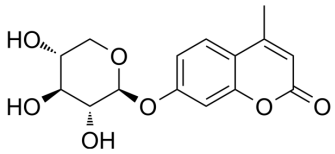
Molecular Weight: 308.28

Target: Others

Pathway: Others

Storage:

Powder	-20°C	3 years
	4°C	2 years
In solvent	-80°C	6 months
	-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 125 mg/mL (405.48 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	3.2438 mL	16.2190 mL	32.4380 mL
	5 mM	0.6488 mL	3.2438 mL	6.4876 mL
	10 mM	0.3244 mL	1.6219 mL	3.2438 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

4-Methylumbelliferyl-β-D-xylopyranoside (MuX) can be used as substrate for the research of β-Xylosidase activity. 4-Methylumbelliferyl-β-D-xylopyranoside shows burst, steady-state kinetics, which supports the conclusion that hydrolysis of the glycosidic bonds for the substrate 4-Methylumbelliferyl-β-D-xylopyranoside is rapid[1][2].

REFERENCES

[1]. Gómez M, et al. Chemical mechanism of beta-xylosidase from Trichoderma reesei QM 9414: pH-dependence of kinetic parameters. Biochimie. 2001 Oct;83(10):961-7.

[2]. Jordan DB,et al. Rate-limiting steps of a stereochemistry retaining β-d-xylosidase from Geobacillus stearothermophilus acting on four substrates. Arch Biochem Biophys. 2015 Oct 1;583:73-8.

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

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