4-Methylumbelliferyl-α-D-galactopyranoside

Cat. No.: HY-118135

CAS No.: 38597-12-5

Molecular Formula: $C_{16}H_{18}O_8$

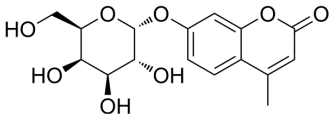
Molecular Weight: 338.31

Target: Fluorescent Dye

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 : 33.33 mg/mL (98.52 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	2.9559 mL	14.7793 mL	29.5587 mL
	5 mM	0.5912 mL	2.9559 mL	5.9117 mL
	10 mM	0.2956 mL	1.4779 mL	2.9559 mL

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

In Vivo

1. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (7.39 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

4-Methylumbelliferyl-α-D-galactopyranoside (4MU-α-Gal), a substrate for α-galactosidase A (GLA), is a blue pro-fluorogenic substrate. 4-Methylumbelliferyl-α-D-galactopyranoside forms two products, galactose and fluorescent 4MU, upon cleavage by GLA[1].

In Vitro

4-Methylumbelliferyl-α-D-galactopyranoside (4MU-α-Gal) has an emission wavelength of 440 nm and an excitation wavelength of 365 nm[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Omid Motabar, et al. High throughput screening for inhibitors of alpha-galactosidase. Curr Chem Genomics. 2010 Dec 3;4:67-73.

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA