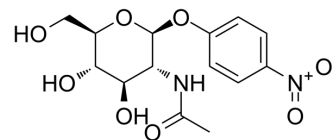


4-Nitrophenyl-N-acetyl-β-D-glucosaminide

Cat. No.:	HY-W011183		
CAS No.:	3459-18-5		
Molecular Formula:	C ₁₄ H ₁₈ N ₂ O ₈		
Molecular Weight:	342.3		
Target:	Biochemical Assay Reagents		
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 : 100 mg/mL (292.14 mM; Need ultrasonic)
 H₂O : 2 mg/mL (5.84 mM; ultrasonic and warming and heat to 60°C)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	2.9214 mL	14.6071 mL	29.2141 mL
	5 mM	0.5843 mL	2.9214 mL	5.8428 mL
	10 mM	0.2921 mL	1.4607 mL	2.9214 mL

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

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 1.25 mg/mL (3.65 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 1.25 mg/mL (3.65 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 1.25 mg/mL (3.65 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

4-Nitrophenyl-N-acetyl-β-D-glucosaminide, an artificial substrate of N-acetyl-beta-D-hexosaminidase (NAGase), can be used in rapid and accurate rate assay for N-acetyl-beta-D-hexosaminidase^[1].

REFERENCES

[1]. Shibata H, et, al. Rate assay of N-acetyl-beta-D-hexosaminidase with 4-nitrophenyl N-acetyl-beta-D-glucosaminide as an artificial substrate. Clin Chim Acta. 1996 Jul 15;251(1):53-64.

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

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