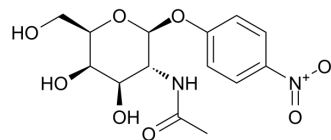


## 4-Nitrophenyl-N-acetyl-β-D-galactosaminide

Cat. No.:	HY-137823
CAS No.:	14948-96-0
Molecular Formula:	C <sub>14</sub> H <sub>18</sub> N <sub>2</sub> O <sub>8</sub>
Molecular Weight:	342.3
Target:	Endogenous Metabolite
Pathway:	Metabolic Enzyme/Protease
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



### SOLVENT & SOLUBILITY

In Vitro	DMSO : 125 mg/mL (365.18 mM; ultrasonic and warming and heat to 60°C)				
		Solvent Concentration	Mass		
	Preparing Stock Solutions		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	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.08 mg/mL (6.08 mM); Clear solution				
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (6.08 mM); Clear solution				

### BIOLOGICAL ACTIVITY

Description	4-Nitrophenyl-N-acetyl-β-D-galactosaminide has inhibitory activity against GlcNAc and GalNAc with K <sub>i</sub> s of 1.15 mM and 0.51 mM, respectively. 4-Nitrophenyl-N-acetyl-β-D-galactosaminide is extracted from <i>Trichomonas foetus</i> ( <i>T. foetus</i> ) <sup>[1]</sup>
IC <sub>50</sub> & Target	K <sub>i</sub> : 1.15 mM (GlcNAc), 0.51 mM (GalNAc) <sup>[1]</sup>

### REFERENCES

[1]. Edwards RG, et al. The purification and properties of a beta-N-acetylhexosaminidase from *Trichomonas foetus*. *Biochem J.* 1975 Oct;151(1):145-8. doi: 10.1042/bj1510145

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

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