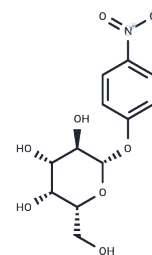


4-Nitrophenyl β -D-Galactopyranoside

Chemical Properties

CAS No. :	3150-24-1
Formula:	C ₁₂ H ₁₅ NO ₈
Molecular Weight:	301.25
Storage:	Store under nitrogen, Store at low temperature Powder: -20°C for 3 years In solvent: -80°C for 1 year <i>Actual storage temperature shall be subject to the COA.</i>



Biological Description

Description	4-Nitrophenyl β -D-Galactopyranoside is a β -D-galactopyranoside derivative that is a substrate for β -galactosidase and can be used to measure β -galactosidase activity, which can be used in the study of lysosomal storage diseases, obesity, and mucopolysaccharides storage diseases.
Targets(IC50)	Others

Solubility Information

Solubility	DMSO: 80 mg/mL (265.56 mM), Sonication is recommended. H ₂ O: 2 mg/mL (6.64 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 5 mg/mL (16.6 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.3195 mL	16.5975 mL	33.195 mL
5 mM	0.6639 mL	3.3195 mL	6.639 mL
10 mM	0.332 mL	1.6598 mL	3.3195 mL
50 mM	0.0664 mL	0.332 mL	0.6639 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Simerská P, et al. Application of selectively acylated glycosides for the alpha-galactosidase-catalyzed synthesis of disaccharides. *Folia Microbiol (Praha)*. 2003;48(3):329-37.

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