Data Sheet (Cat.No.T20255)

TargetMol

L-Galactose

Chemical Properties

CAS No. : 15572-79-9

Formula: C6H12O6

Molecular Weight: 180.156

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	L-Galactose (Galactose, L-) is a natural product that is widely found in plants and animals. L-Galactose has been shown to be a key intermediate in the molecular pathway for the conversion of D-glucose to oxalic acid in Pistia stratiotes.L-Galactose has been shown to be a key intermediate in the molecular pathway for the conversion of D-glucose to oxalic acid.
Targets(IC50)	Endogenous Metabolite,Vitamin

Solubility Information

Solubility	DMSO: 3.85 mg/mL (21.37 mM),Sonication is recommended. H2O: 122.50 mg/mL (679.97 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	5.5506 mL	27.7531 mL	55.5062 mL
5 mM	1.1101 mL	5.5506 mL	11.1012 mL
10 mM	0.5551 mL	2.7753 mL	5.5506 mL
50 mM	0.111 mL	0.5551 mL	1.1101 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

Pathiraja D, et al. Model-Based Complete Enzymatic Production of 3,6-Anhydro-l-galactose from Red Algal Biomass. J Agric Food Chem. 2018;66(26):6814-6821.
Wang Q, et al. Coimmobilization of β-Agarase and α-Neoagarobiose Hydrolase for Enhancing the Production of 3,6-Anhydro-l-galactose. J Agric Food Chem. 2018;66(27):7087-7095.
Kim JH, et al. Effect of 3,6-anhydro-l-galactose on α-melanocyte stimulating hormone-induced melanogenesis in human melanocytes and a skin-equivalent model. J Cell Biochem. 2018;119(9):7643-7656.
Zhang JY, et al. Chlorophyll, carotenoid and vitamin C metabolism regulation in Actinidia chinensis 'Hongyang' outer pericarp during fruit development. PLoS One. 2018;13(3):e0194835.